

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034305.D
 Acq On : 16 Oct 2019 18:45
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 17 05:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1159212	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2305387	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2985271	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	2045986	8.09	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1544834	7.730	ppbv 100
3) Chlorodifluoromethane	2.97	51	1305144	9.606	ppbv 99
4) Chloromethane	3.12	50	788011	9.805	ppbv 100
5) Vinyl Chloride	3.24	62	721212	9.411	ppbv 98
6) Bromomethane	3.46	94	378478	10.086	ppbv 99
7) Chloroethane	3.55	64	272004	10.085	ppbv 98
8) Dichlorotetrafluoroethane	3.17	85	1613253	9.316	ppbv 98
9) Propene	2.99	41	622155	10.330	ppbv 100
10) Heptane	8.17	43	1604970	10.382	ppbv 99
11) Trichlorofluoromethane	3.95	101	1766057	9.308	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1206032	9.702	ppbv 99
13) Ethanol	3.60	45	128556	9.533	ppbv 98
14) Bromoethene	3.73	108	517525	10.574	ppbv 99
15) Acetone	3.85	43	1349538	8.139	ppbv 99
16) 1,3-Butadiene	3.31	39	686937	10.196	ppbv 99
17) tert-Butyl alcohol	4.29	59	1240950	11.727	ppbv 99
18) 1,1-Dichloroethene	4.29	96	554371	10.186	ppbv 93
19) Isopropyl Alcohol	3.97	45	1051266	11.365	ppbv 100
20) Methylene Chloride	4.35	84	481007	8.025	ppbv 93
21) Allyl Chloride	4.42	41	946306	10.324	ppbv 100
22) trans-1,2-Dichloroethene	4.90	96	552739	10.182	ppbv 100
23) Vinyl Acetate	5.09	43	2194604	10.599	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1519928	9.890	ppbv 99
25) Ethyl Acetate	5.70	43	2713750	9.694	ppbv 100
26) Hexane	5.71	57	1182301	9.909	ppbv 98
27) Carbon Disulfide	4.56	76	1391876	11.237	ppbv 98
28) Methyl tert-Butyl Ether	5.05	73	1910409	10.580	ppbv 100
29) Chloroform	5.79	83	1822659	9.657	ppbv 96
30) Cyclohexane	7.17	84	933945	10.644	ppbv 97
31) cis-1,2-Dichloroethene	5.57	61	1257229	10.383	ppbv 99
32) 1,1,1-Trichloroethane	6.55	97	1806504	9.843	ppbv 100
34) 2-Butanone	5.27	43	1852694	9.832	ppbv 100
35) Carbon Tetrachloride	7.06	117	1879661	9.361	ppbv 97
36) Benzene	6.94	78	2198578	9.940	ppbv 99
37) 1,2-Dichloroethane	6.35	62	1561898	9.475	ppbv 99
38) Trichloroethene	7.89	130	848140	9.555	ppbv 95
39) 1,2-Dichloropropane	7.66	63	940761	9.877	ppbv 98
40) 1,4-Dioxane	7.88	88	352423	10.529	ppbv # 1
41) Tetrahydrofuran	6.08	42	1093320	10.455	ppbv 100
42) Bromodichloromethane	7.84	83	2017752	9.993	ppbv 94
43) Methyl Methacrylate	8.07	69	968827	10.590	ppbv 96

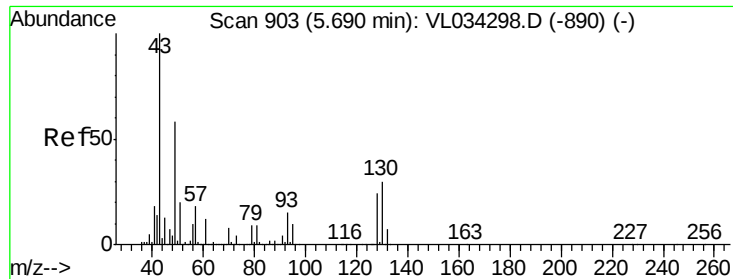
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034305.D
 Acq On : 16 Oct 2019 18:45
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 MSVOA_L
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Quant Time: Oct 17 05:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3935084	9.612	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1293484	11.605	ppbv	100
46) cis-1,3-Dichloropropene	8.76	75	1447298	11.302	ppbv	99
47) 1,1,2-Trichloroethane	9.54	97	925615	9.594	ppbv	97
48) Dibromochloromethane	10.37	129	1652860	10.444	ppbv	98
49) Bromoform	13.12	173	1459511	10.408	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2717097	10.072	ppbv	99
51) 2-Hexanone	10.19	43	2325468	10.516	ppbv	100
52) Tetrachloroethene	11.30	164	816233	9.414	ppbv	96
53) Toluene	9.87	91	2540122	10.406	ppbv	100
54) 1,2-Dibromoethane	10.69	107	1388094	9.708	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	1080205	7.852	ppbv	97
57) Chlorobenzene	12.22	112	1904062	7.645	ppbv	99
58) Ethyl Benzene	12.79	91	3434045	8.229	ppbv	98
59) m/p-Xylene	13.07	91	2970391	8.215	ppbv #	36
60) o-Xylene	13.77	91	2838167	7.883	ppbv	100
61) Styrene	13.61	104	2135070	8.423	ppbv	99
62) Isopropylbenzene	14.75	105	3691089	7.766	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	1957314	6.765	ppbv	100
64) n-propylbenzene	15.65	120	977895	8.017	ppbv	97
65) tert-Butylbenzene	16.84	119	3218752	7.641	ppbv	99
66) Benzyl Chloride	17.08	91	1550399	9.319	ppbv	100
67) sec-Butylbenzene	17.38	105	4468598	7.538	ppbv	100
69) p-Isopropyltoluene	17.74	119	3702206	7.660	ppbv	100
70) n-Butylbenzene	18.64	91	3962668	7.536	ppbv	100
71) 2-Chlorotoluene	15.55	91	2937041	7.970	ppbv	100
72) 4-Ethyltoluene	15.92	105	3223461	7.965	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3093053	7.713	ppbv	96
74) 1,2,4-Trimethylbenzene	16.85	105	3168541	7.577	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1818565	7.243	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	1825021	7.442	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1756175	7.134	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1493795	7.336	ppbv	99
79) Naphthalene	22.32	128	3087841	10.108	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	943033	10.680	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	1803016	9.037	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

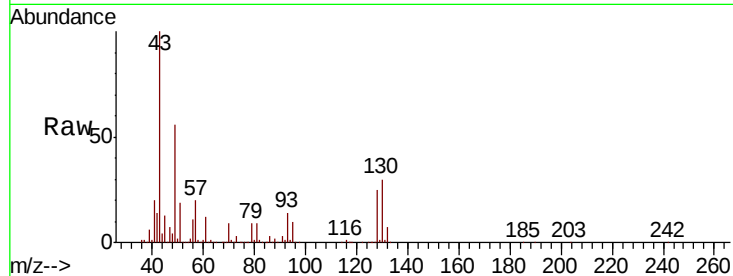
Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 49 Resp: 1159212

Ion	Ratio	Lower	Upper
49	100		
128	42.2	20.6	61.8
130	52.8	26.2	78.5

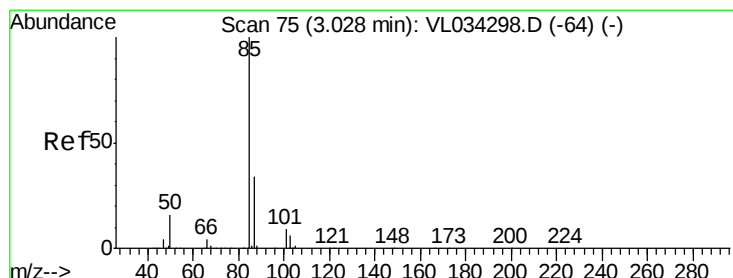
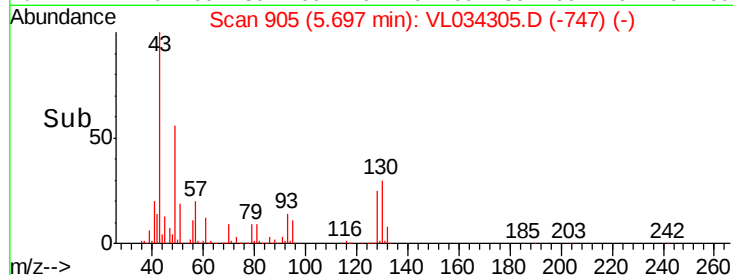


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#2

Dichlorodifluoromethane

Concen: 7.730 ppbv

RT: 3.03 min Scan# 76

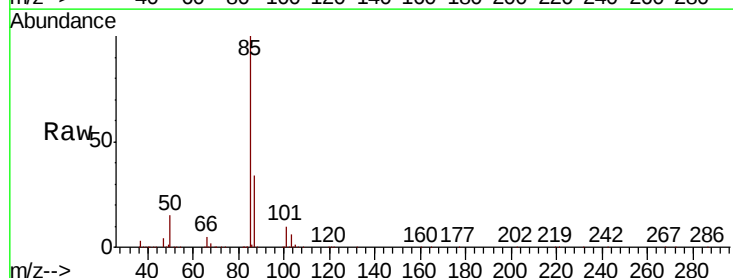
Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion: 85 Resp: 1544834

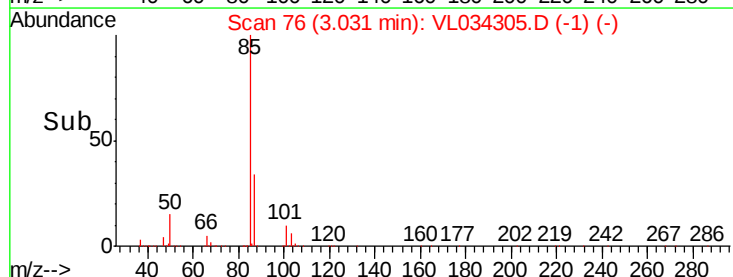
Ion	Ratio	Lower	Upper
85	100		
87	34.1	27.0	40.6

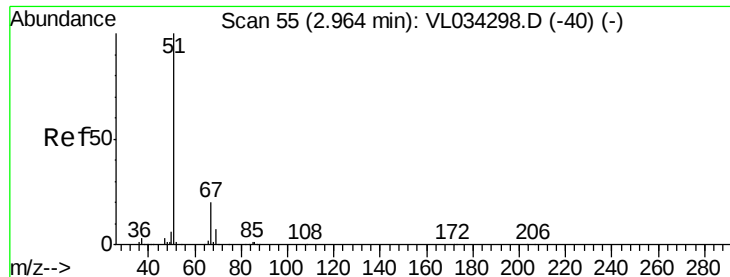


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



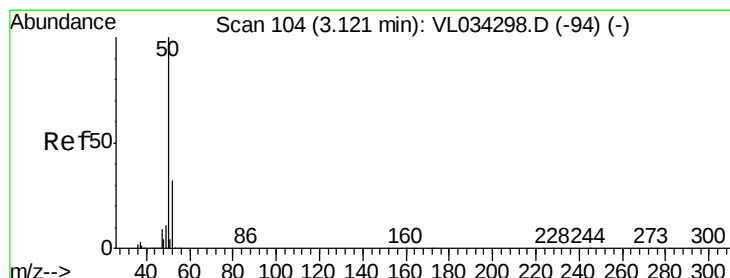
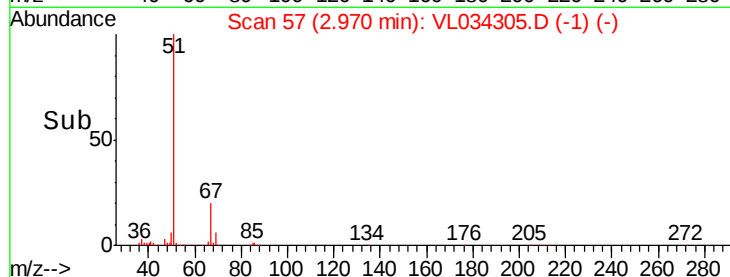
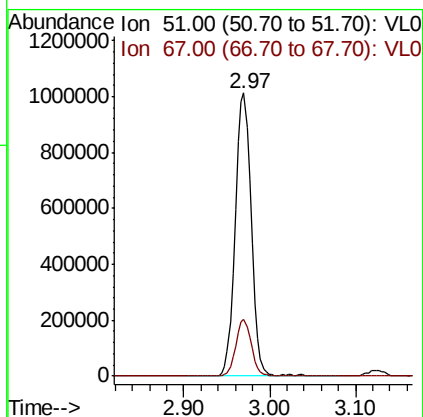
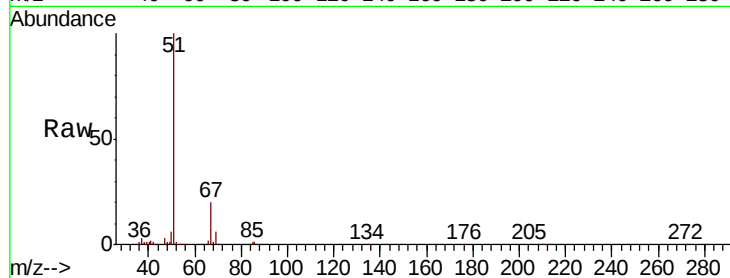


#3

Chlorodifluoromethane
 Concen: 9.606 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :

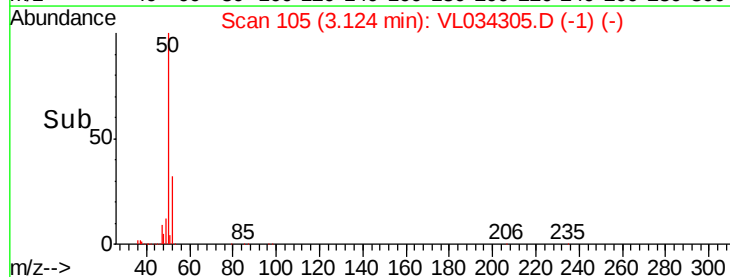
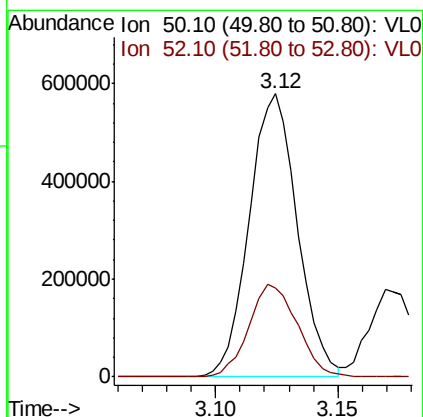
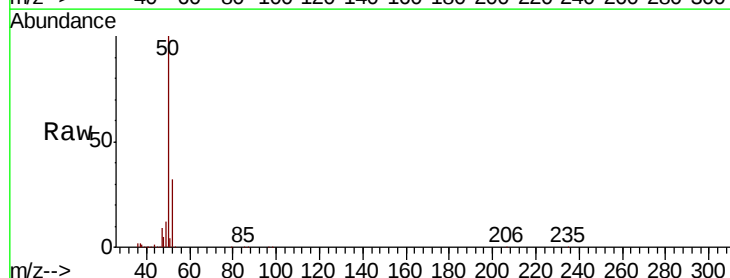
Tot Ion: 51 Resp: 1305144
 Ion Ratio Lower Upper
 51 100
 67 19.3 15.8 23.8

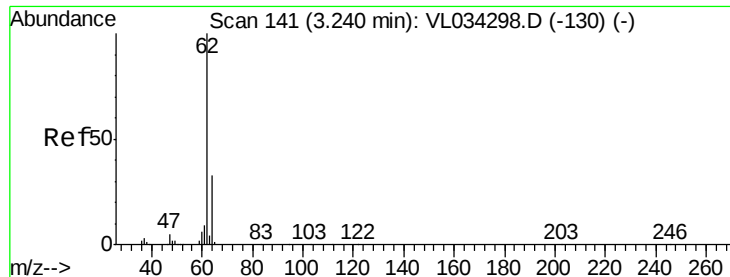


#4

Chloromethane
 Concen: 9.805 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 50 Resp: 788011
 Ion Ratio Lower Upper
 50 100
 52 31.6 25.4 38.2





#5

Vinyl Chloride

Concen: 9.411 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

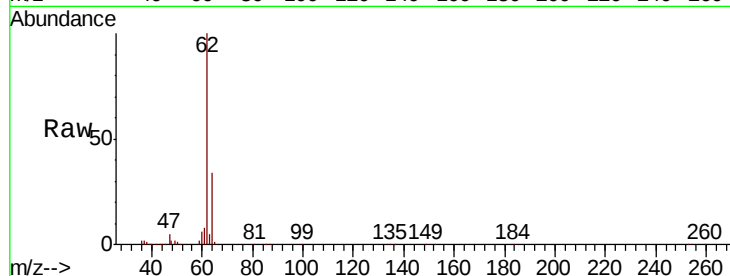
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 62 Resp: 721212

Ion Ratio Lower Upper

62 100

64 33.6 26.0 39.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.24

600000

500000

400000

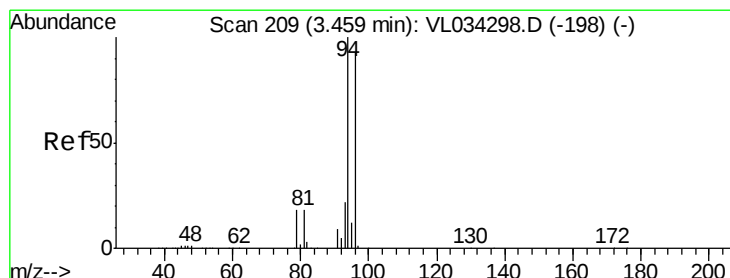
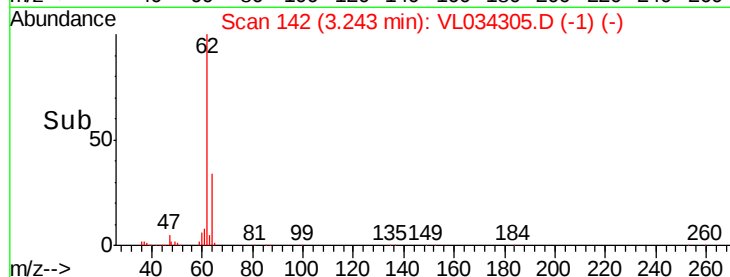
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.086 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034305.D

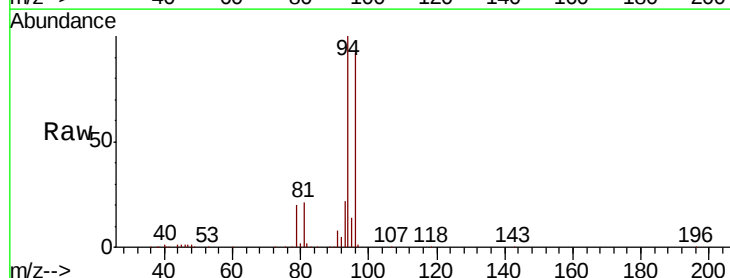
Acq: 16 Oct 2019 18:45

Tgt Ion: 94 Resp: 378478

Ion Ratio Lower Upper

94 100

96 92.1 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

300000

250000

200000

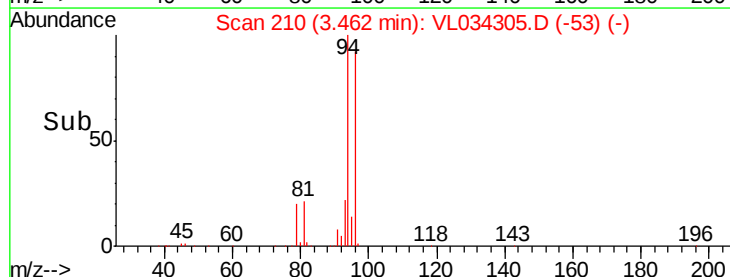
150000

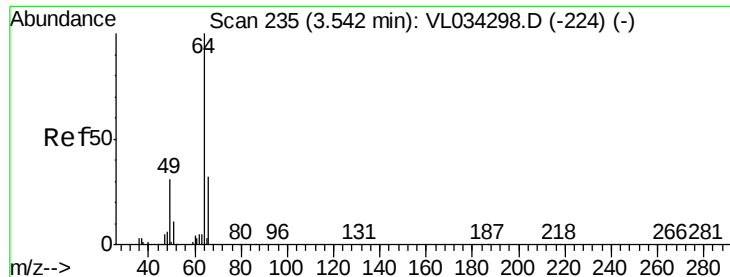
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.085 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

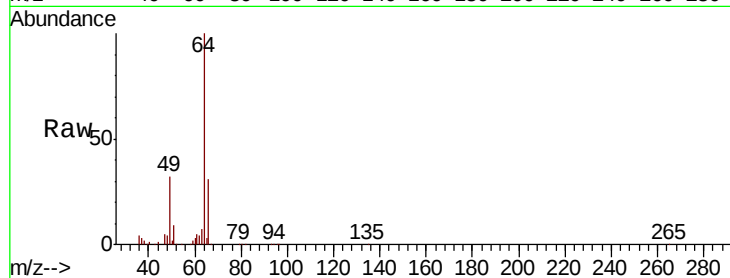
ClientSampled :

Tot Ion: 64 Resp: 272004

Ion Ratio Lower Upper

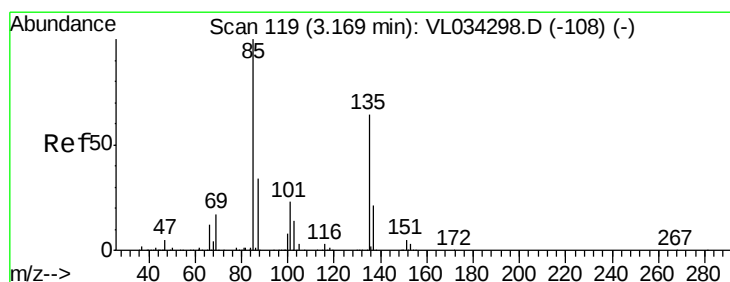
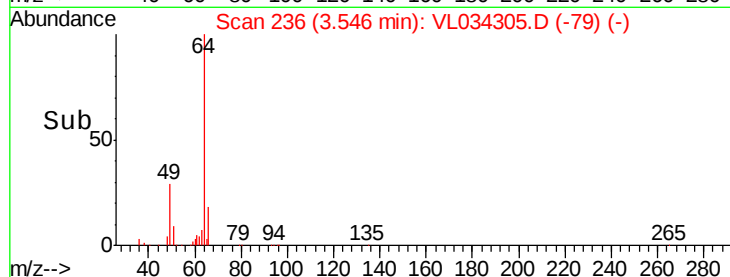
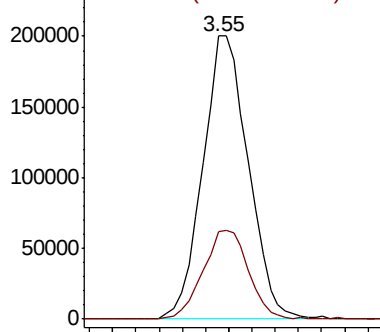
64 100

66 30.8 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.316 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL034305.D

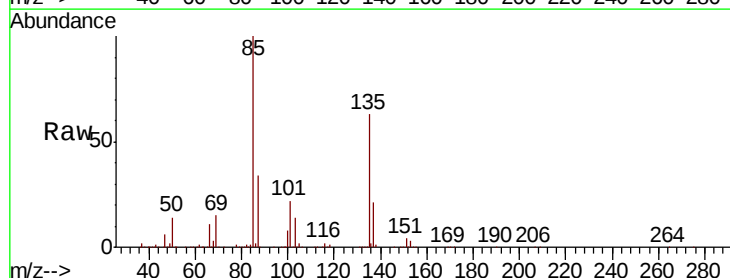
Acq: 16 Oct 2019 18:45

Tgt Ion: 85 Resp: 1613253

Ion Ratio Lower Upper

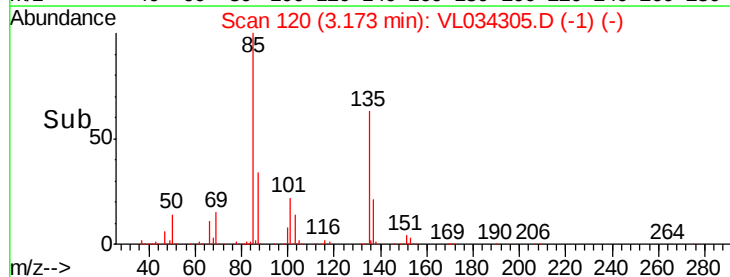
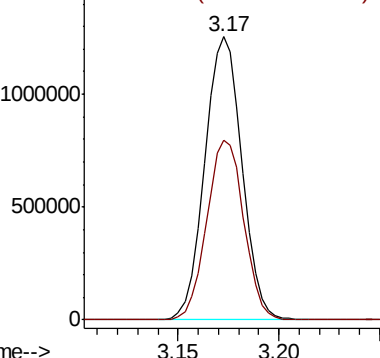
85 100

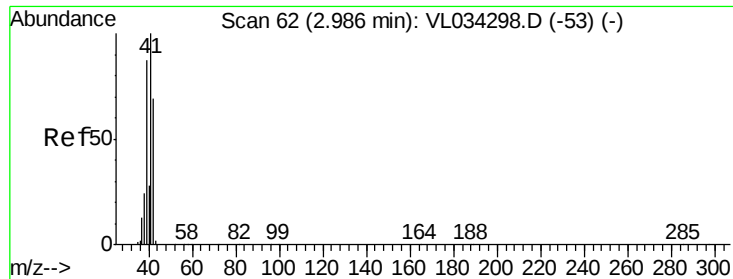
135 63.9 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.330 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

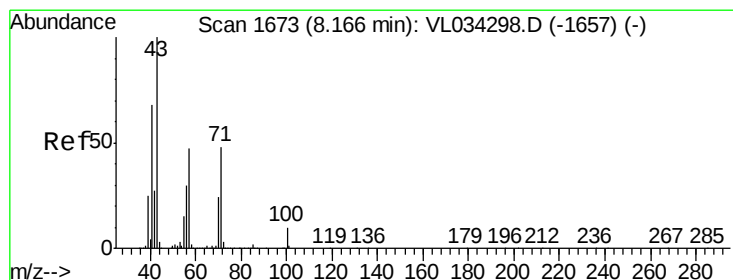
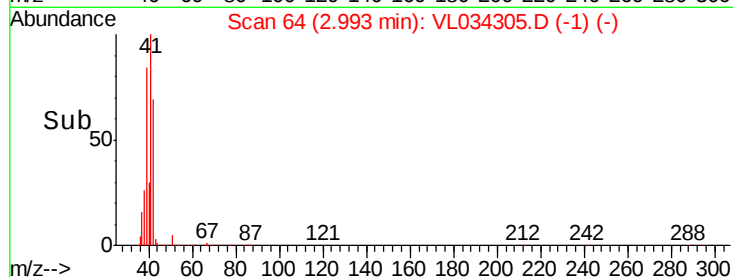
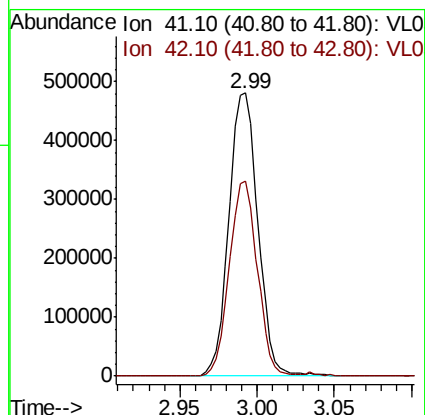
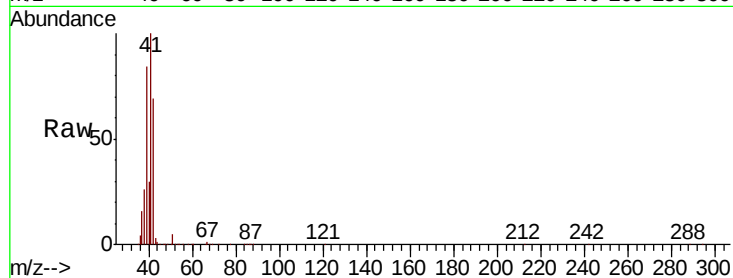
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 622155

Ion Ratio Lower Upper

41 100

42 67.3 53.9 80.9



#10

Heptane

Concen: 10.382 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034305.D

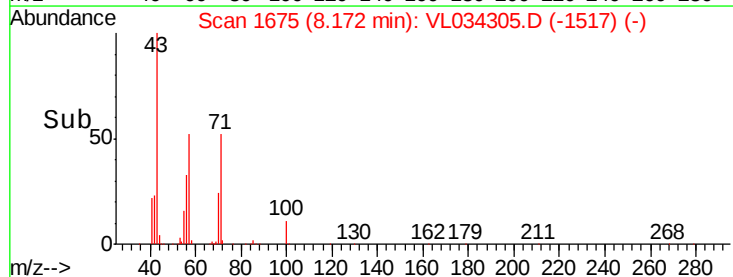
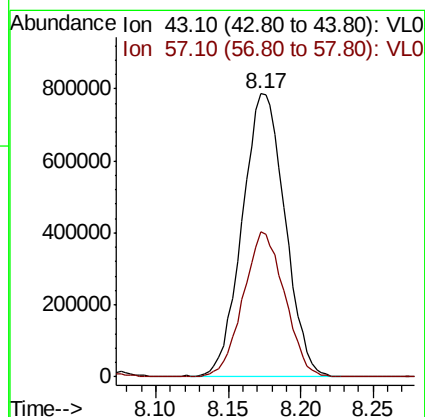
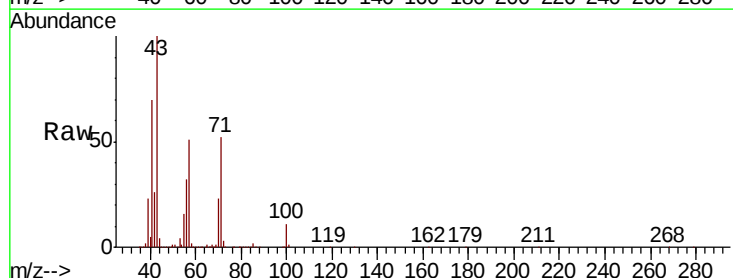
Acq: 16 Oct 2019 18:45

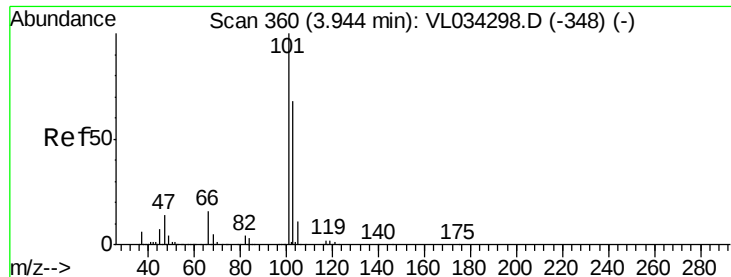
Tgt Ion: 43 Resp: 1604970

Ion Ratio Lower Upper

43 100

57 50.2 39.5 59.3

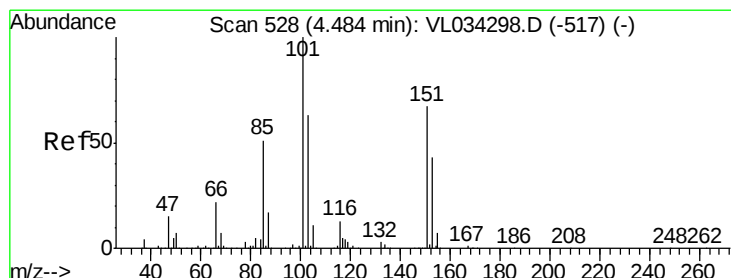
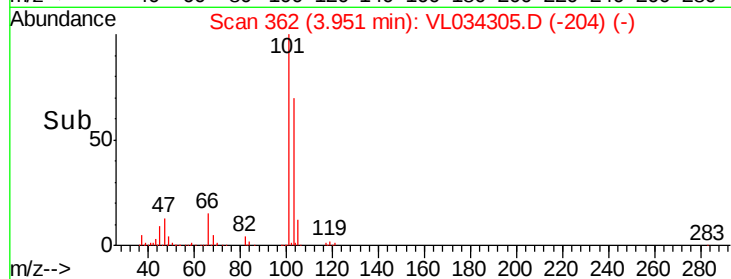
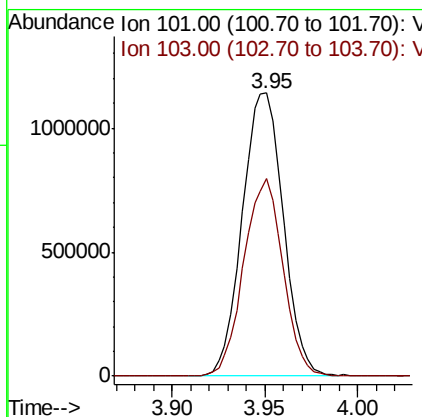
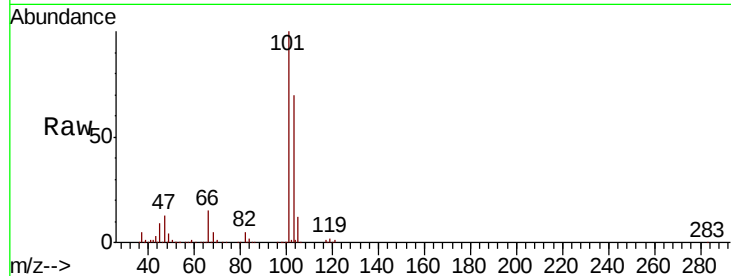




#11
 Trichlorofluoromethane
 Concen: 9.308 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

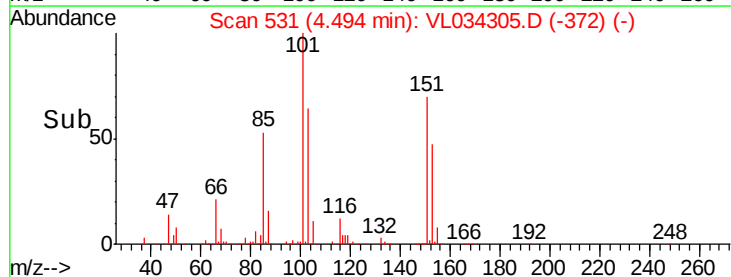
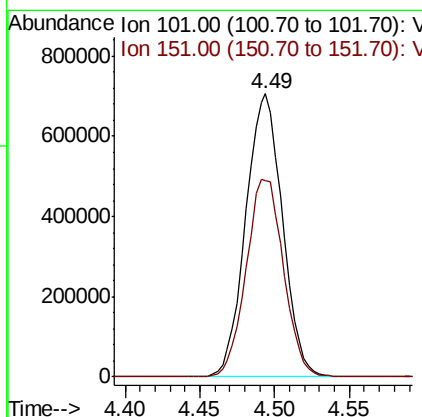
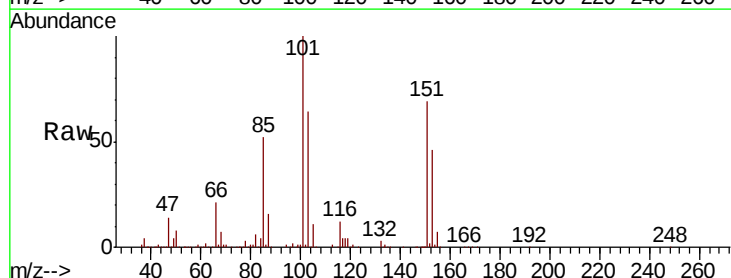
Instrument :
 MSVOA_L
 ClientSampled :

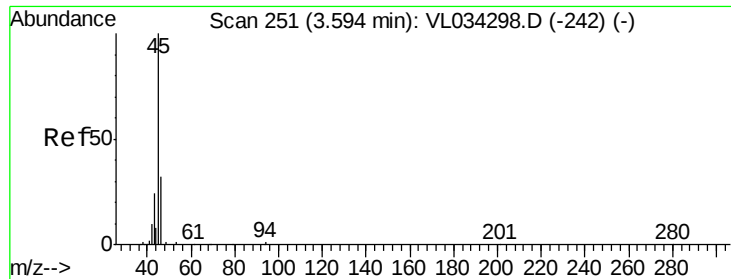
Tot Ion:101 Resp: 1766057
 Ion Ratio Lower Upper
 101 100
 103 69.8 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.702 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion:101 Resp: 1206032
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.4 86.2





#13

Ethanol

Concen: 9.533 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

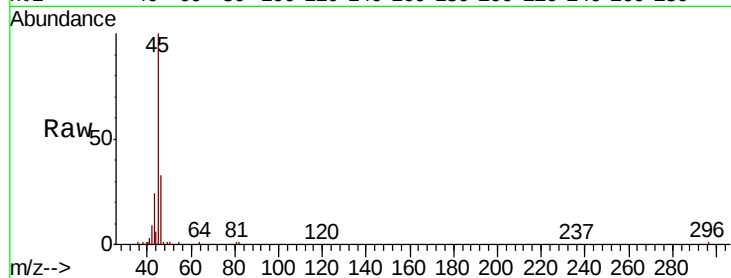
ClientSampleId :

Tot Ion: 45 Resp: 128556

Ion Ratio Lower Upper

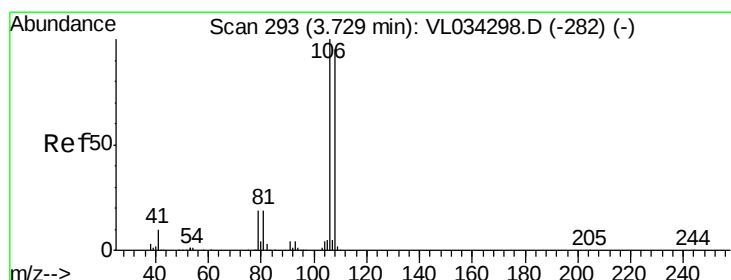
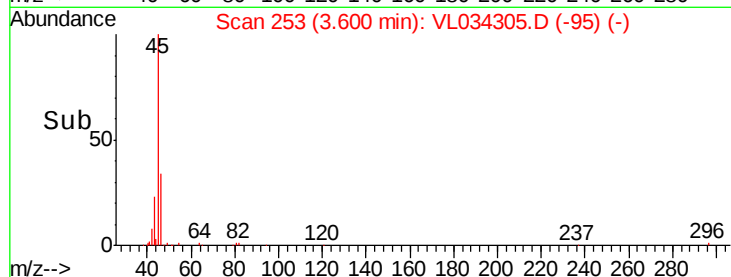
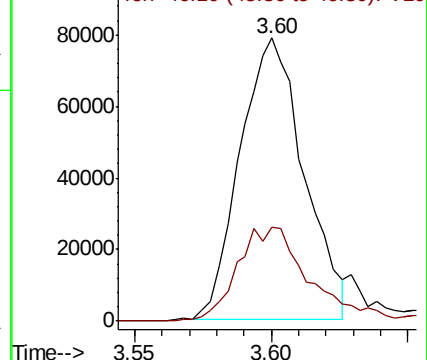
45 100

46 38.5 15.8 63.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.574 ppbv

RT: 3.73 min Scan# 294

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

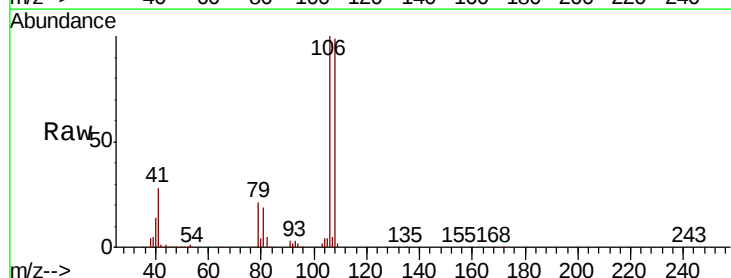
Tgt Ion: 108 Resp: 517525

Ion Ratio Lower Upper

108 100

106 104.5 84.8 127.2

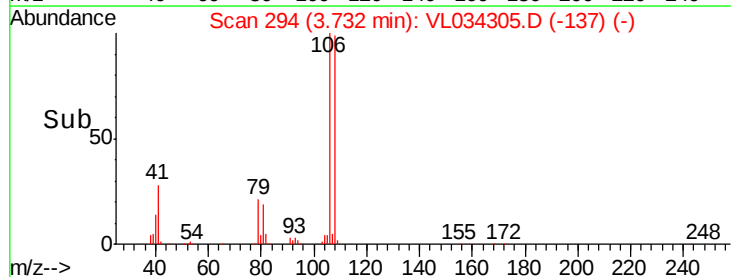
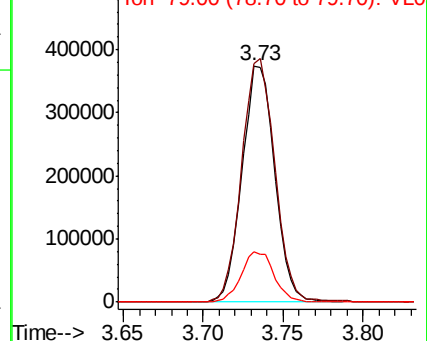
79 21.9 17.0 25.4

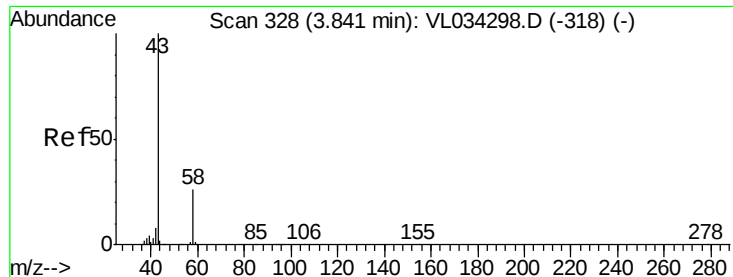


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 8.139 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

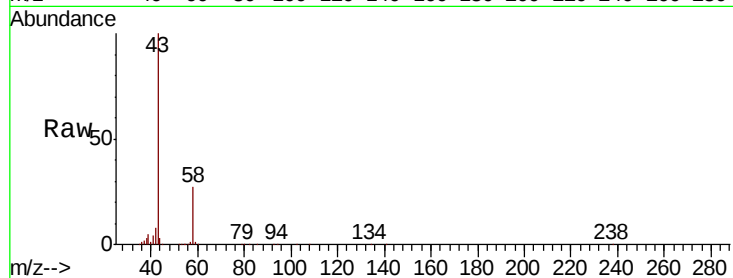
ClientSampleId :

Tot Ion: 43 Resp: 1349538

Ion Ratio Lower Upper

43 100

58 25.8 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

1000000

800000

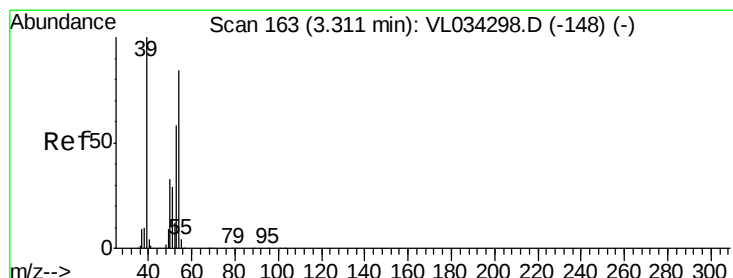
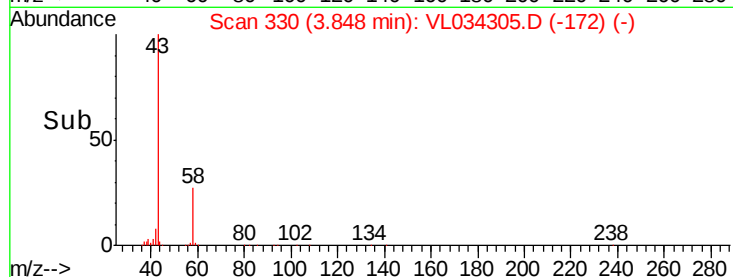
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.196 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.00 min

Lab File: VL034305.D

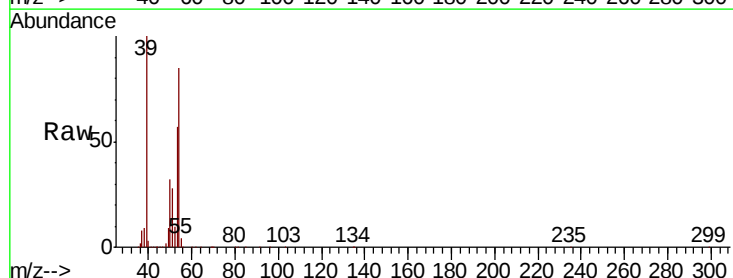
Acq: 16 Oct 2019 18:45

Tgt Ion: 39 Resp: 686937

Ion Ratio Lower Upper

39 100

54 80.5 63.9 95.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

600000

500000

400000

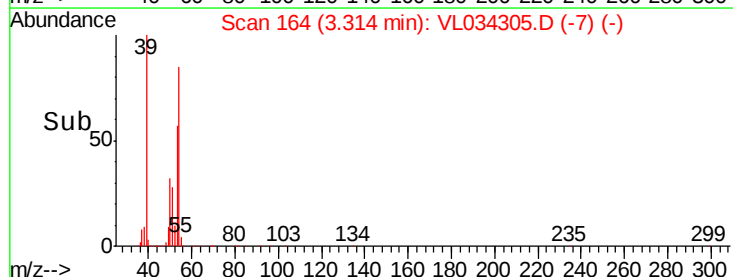
300000

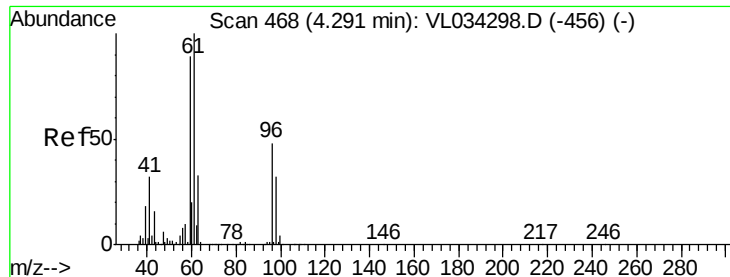
200000

100000

0

Time-->



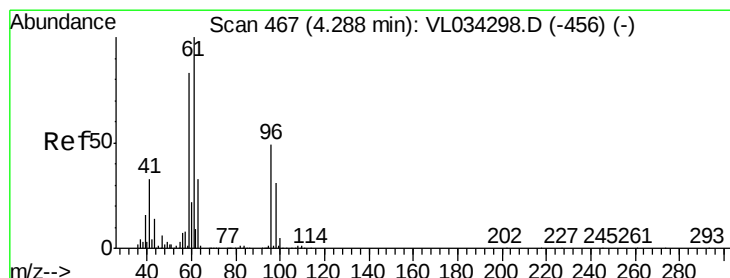
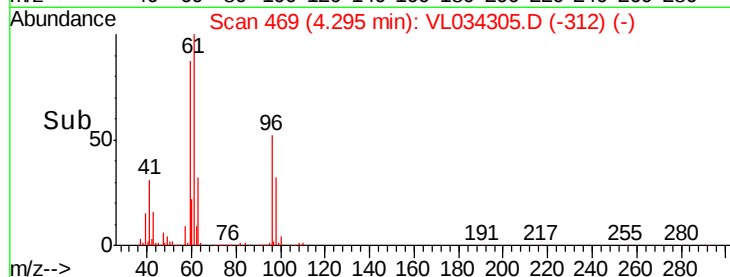
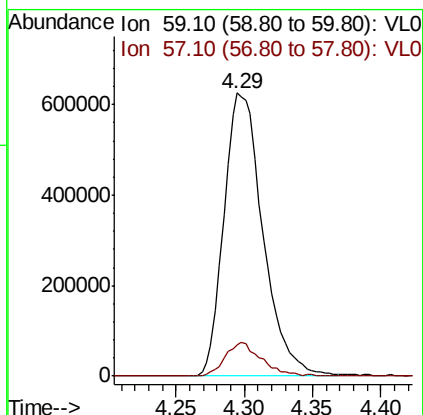
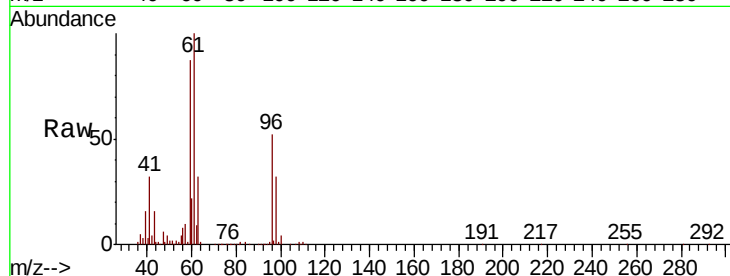


#17

tert-Butyl alcohol
 Concen: 11.727 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampled :

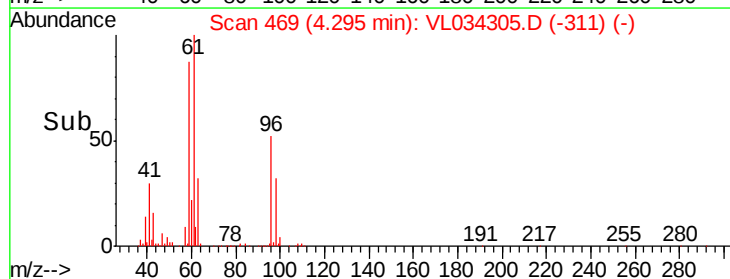
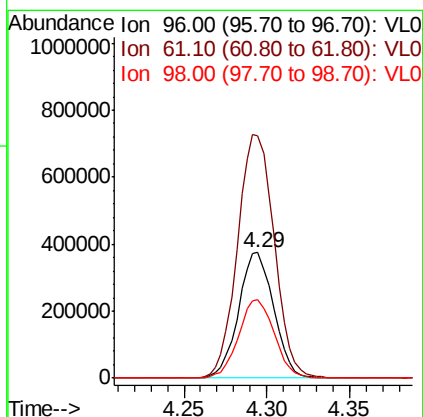
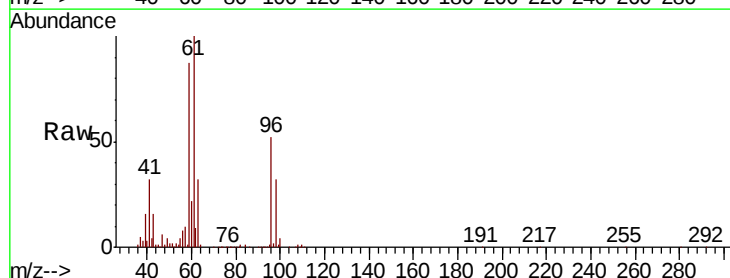
Tot Ion: 59 Resp: 1240950
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.8 13.2

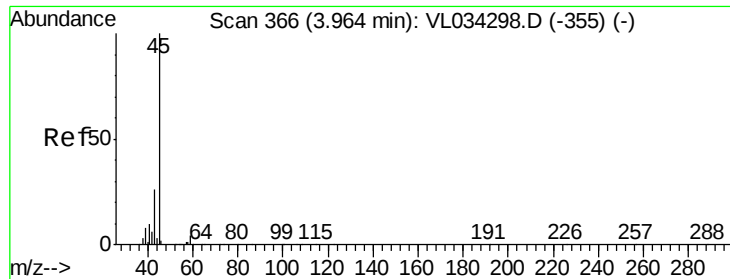


#18

1,1-Dichloroethene
 Concen: 10.186 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 96 Resp: 554371
 Ion Ratio Lower Upper
 96 100
 61 192.4 164.5 246.7
 98 62.3 51.7 77.5



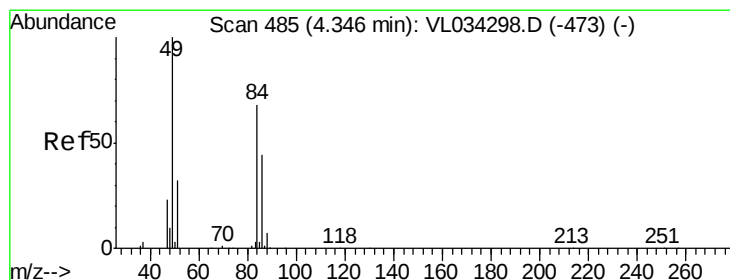
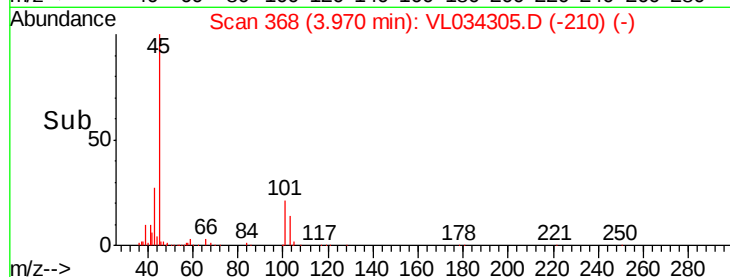
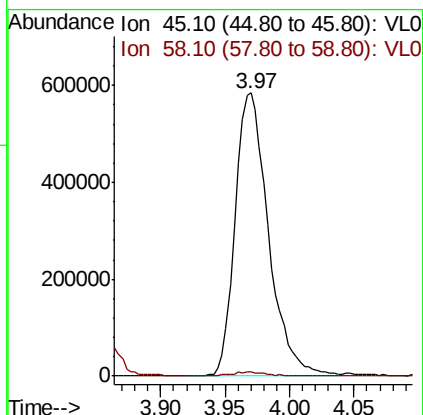
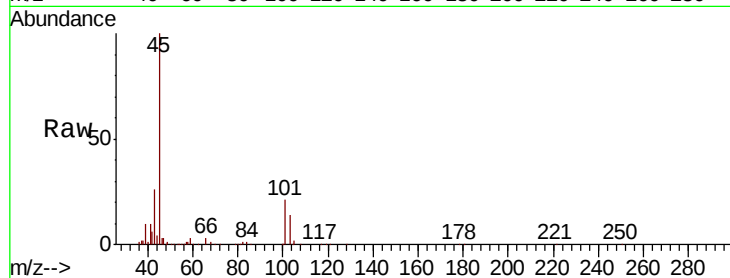


#19

Isopropyl Alcohol
 Concen: 11.365 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :

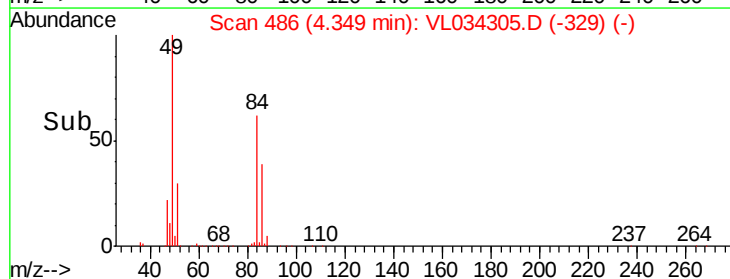
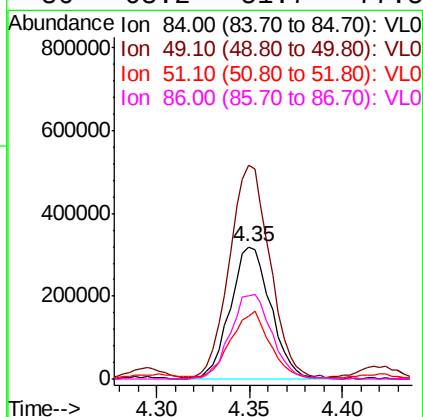
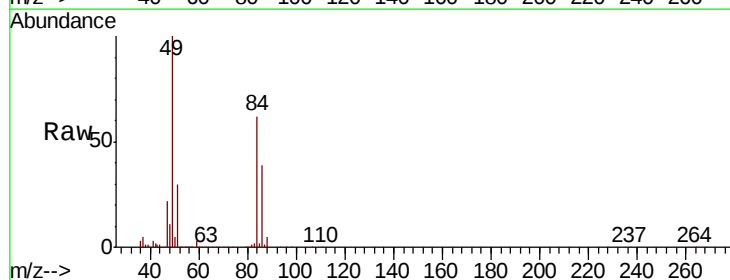
Tot Ion: 45 Resp: 1051266
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.4 2.2

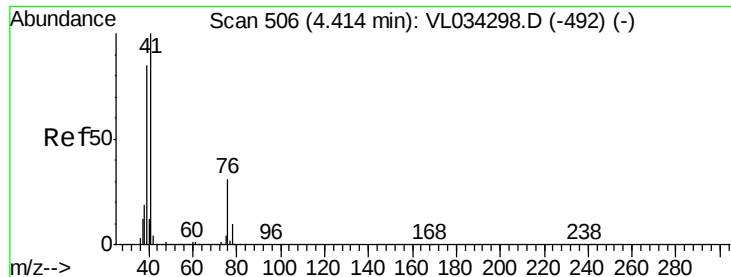


#20

Methylene Chloride
 Concen: 8.025 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 84 Resp: 481007
 Ion Ratio Lower Upper
 84 100
 49 160.7 118.5 177.7
 51 46.8 38.8 58.2
 86 63.2 51.7 77.5

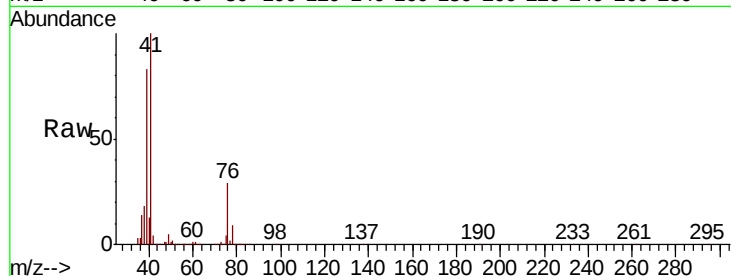




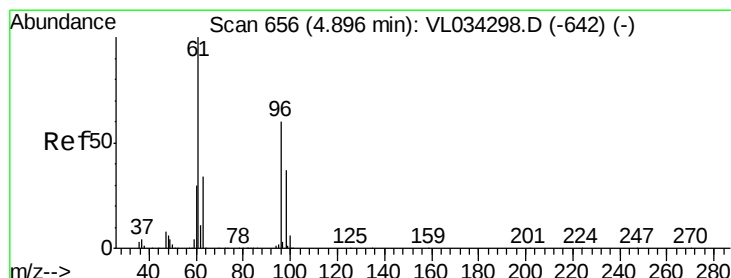
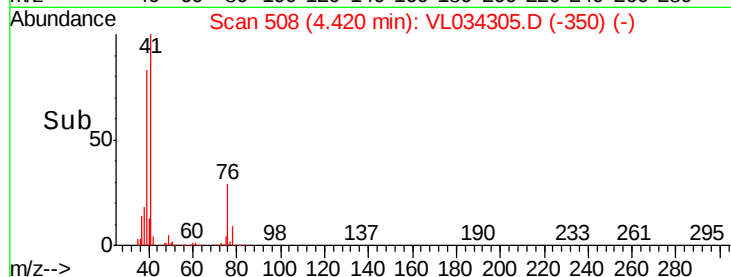
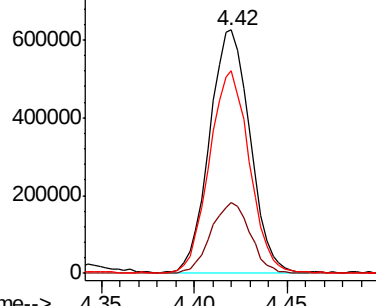
#21
Allvl Chloride
Concen: 10.324 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 946306
Ion Ratio Lower Upper
41 100
76 28.5 22.8 34.2
39 82.7 66.0 99.0

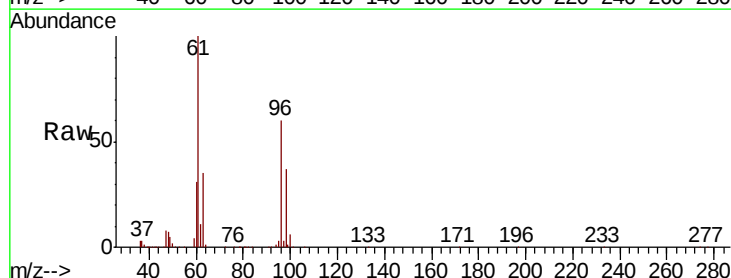


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

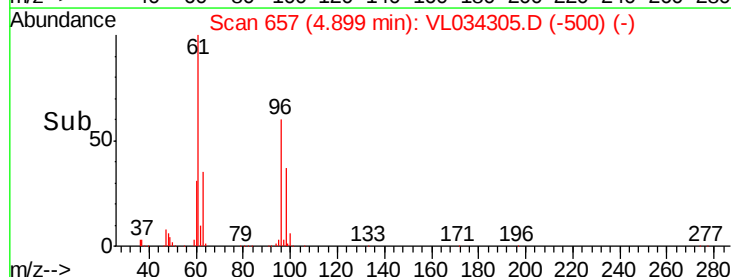
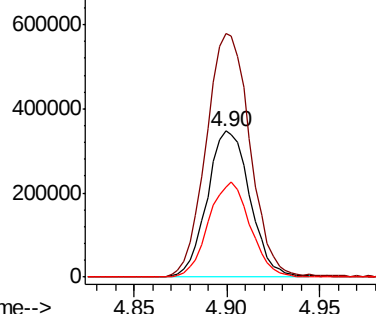


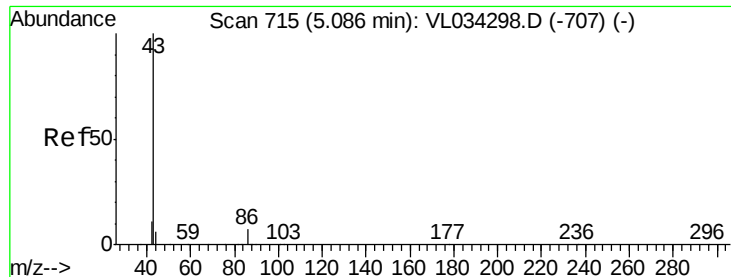
#22
trans-1,2-Dichloroethene
Concen: 10.182 ppbv
RT: 4.90 min Scan# 657
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 96 Resp: 552739
Ion Ratio Lower Upper
96 100
61 166.7 133.8 200.6
98 61.7 49.4 74.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.599 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

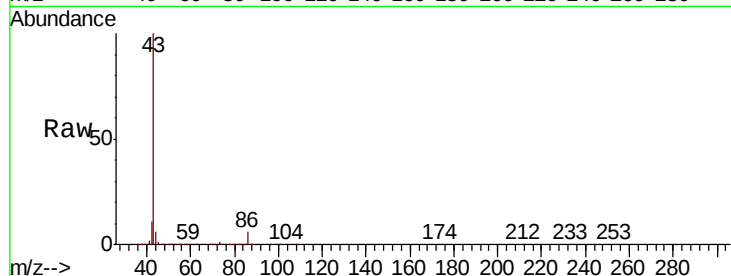
Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

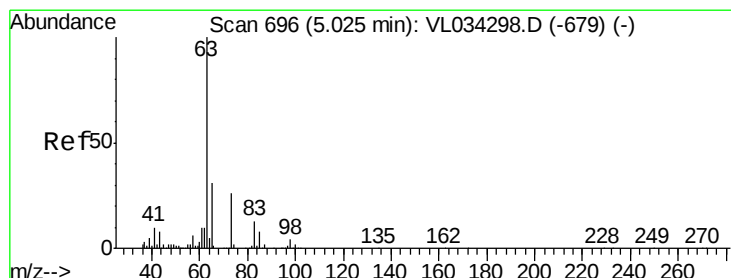
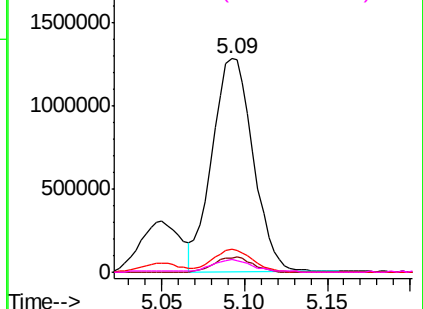
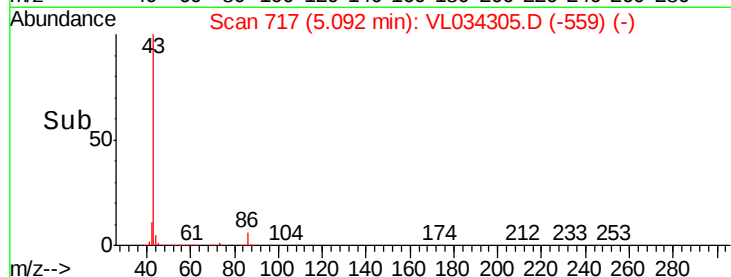
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2194604

Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.0	7.4
42	11.0	8.6	13.0
44	5.8	4.8	7.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000 Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.890 ppbv

RT: 5.03 min Scan# 698

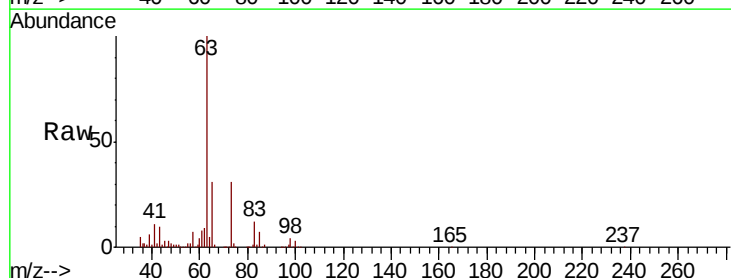
Delta R.T. 0.01 min

Lab File: VL034305.D

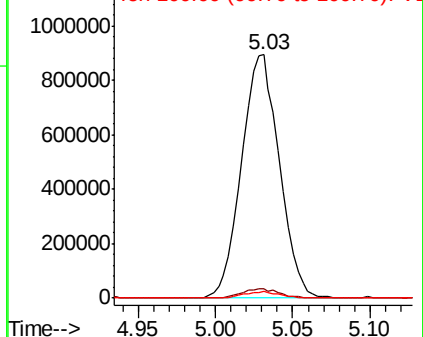
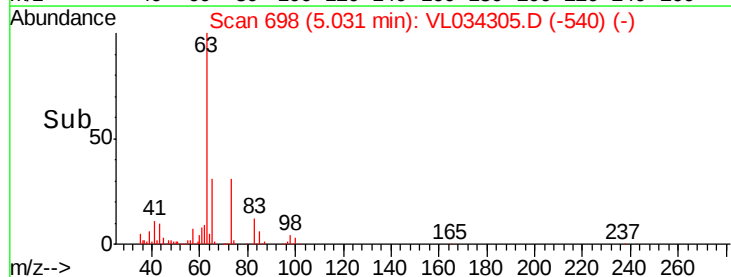
Acq: 16 Oct 2019 18:45

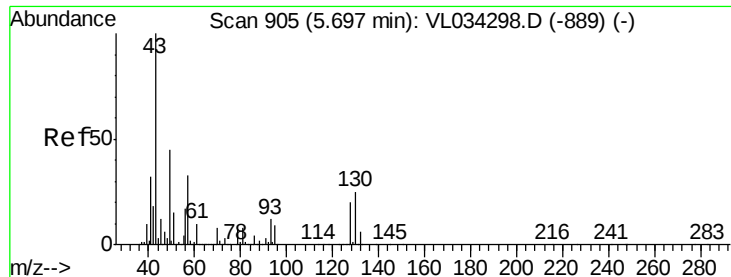
Tgt Ion: 63 Resp: 1519928

Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.0	6.0
100	3.0	1.1	3.5



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000 Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.694 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

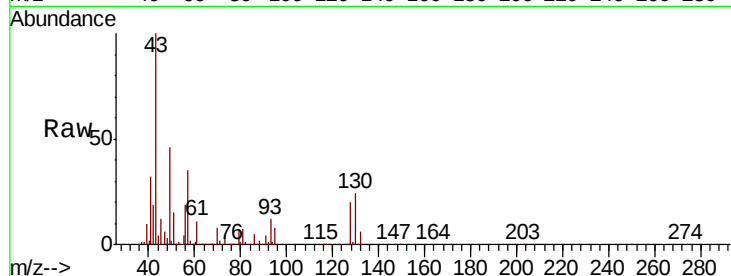
Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2713750

Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.3	12.5
61	9.5	7.7	11.5
70	7.1	5.4	8.2



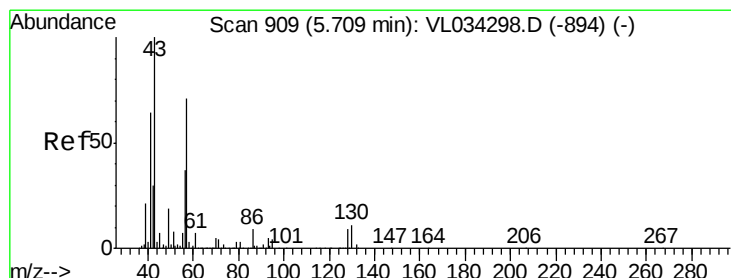
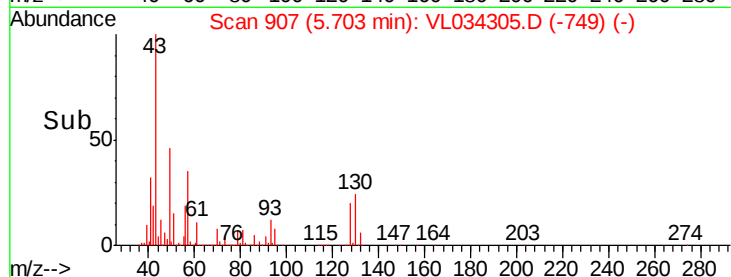
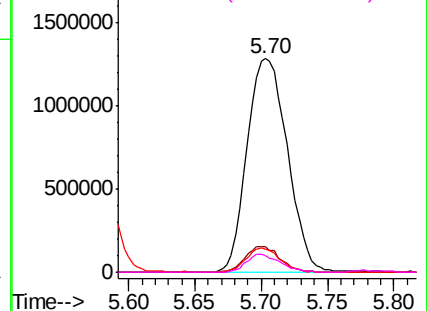
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.909 ppbv

RT: 5.71 min Scan# 910

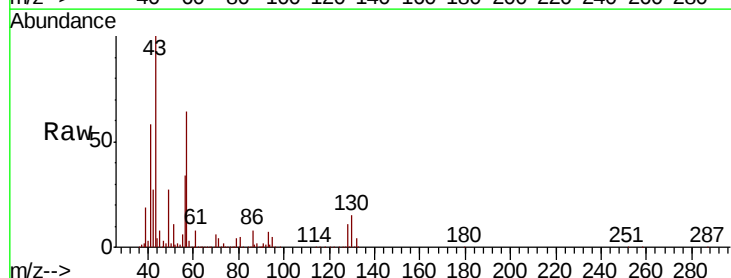
Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion: 57 Resp: 1182301

Ion	Ratio	Lower	Upper
57	100		
41	94.2	76.5	114.7
43	230.9	188.5	282.7
56	53.0	42.8	64.2



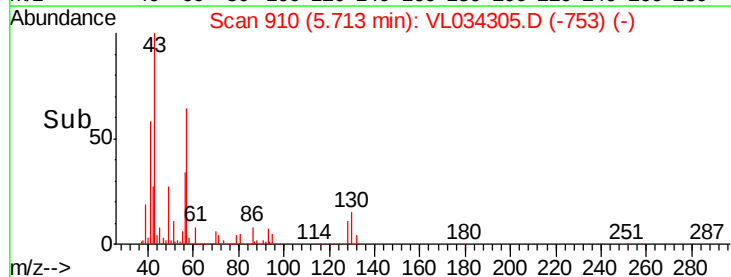
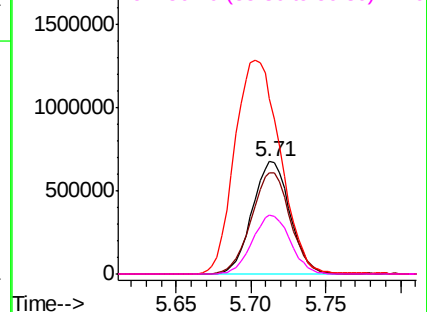
Abundance

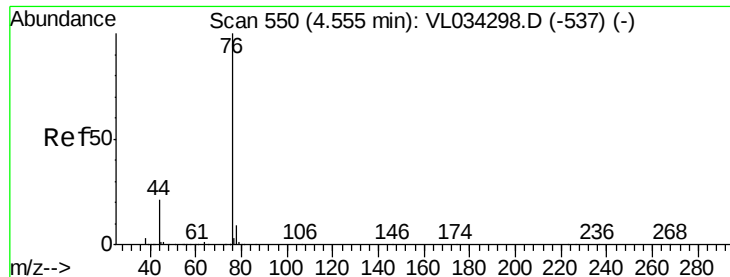
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.237 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

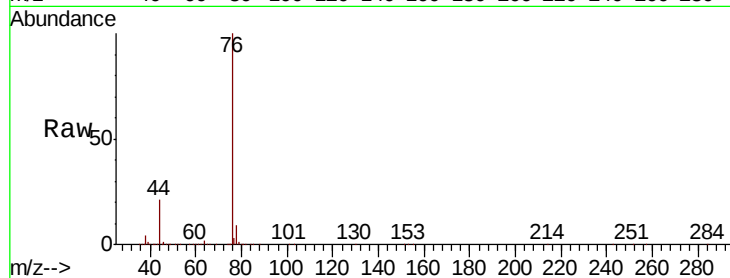
Tot Ion: 76 Resp: 1391876

Ion Ratio Lower Upper

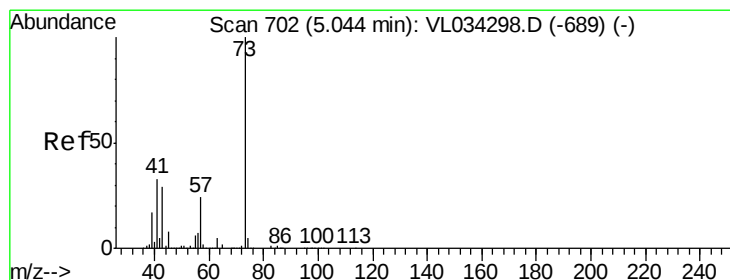
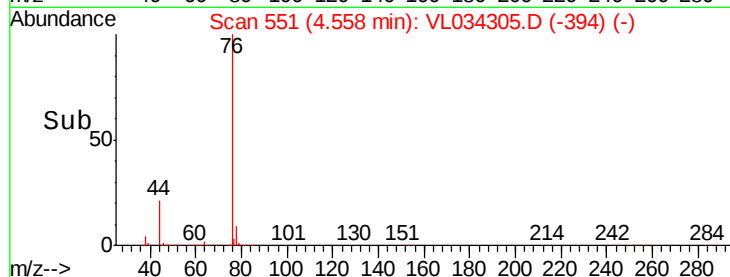
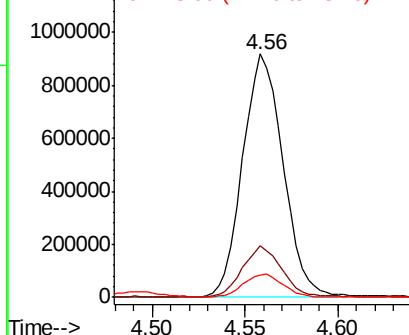
76 100

44 20.3 17.3 25.9

78 9.4 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.580 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL034305.D

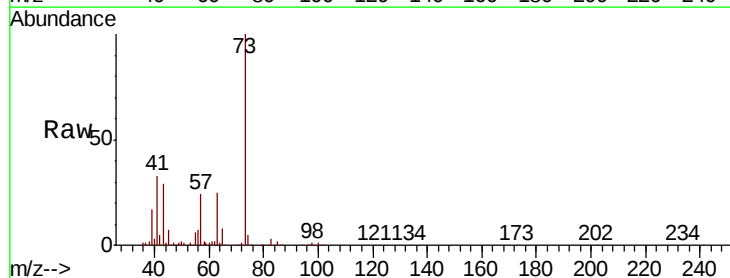
Acq: 16 Oct 2019 18:45

Tgt Ion: 73 Resp: 1910409

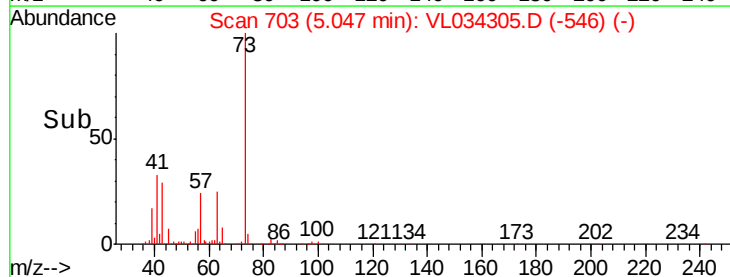
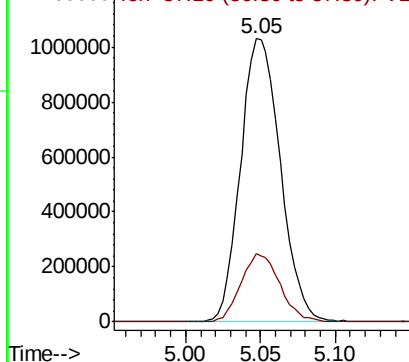
Ion Ratio Lower Upper

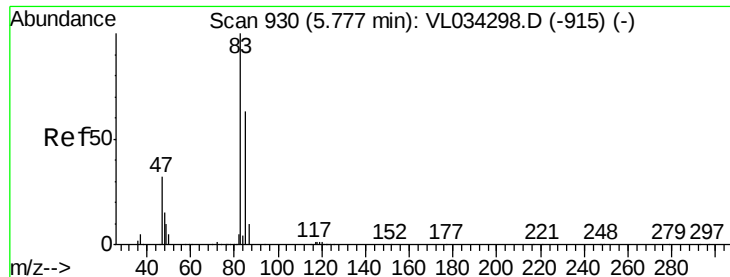
73 100

57 23.8 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.657 ppbv

RT: 5.79 min Scan# 933

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

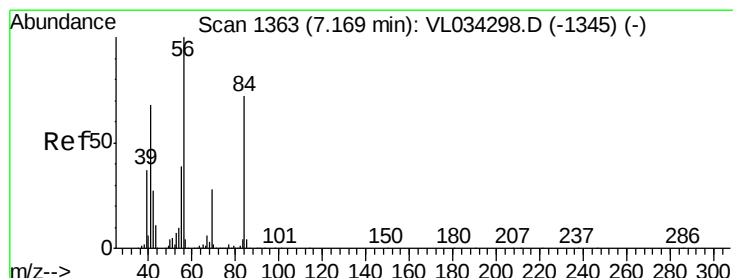
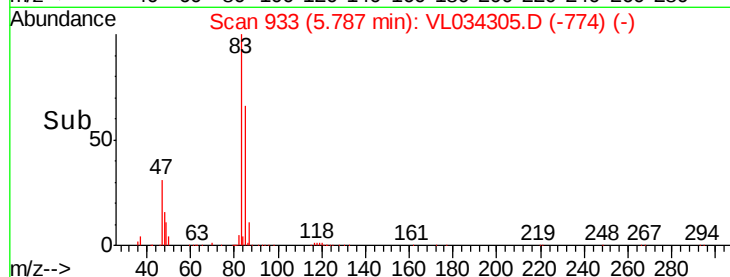
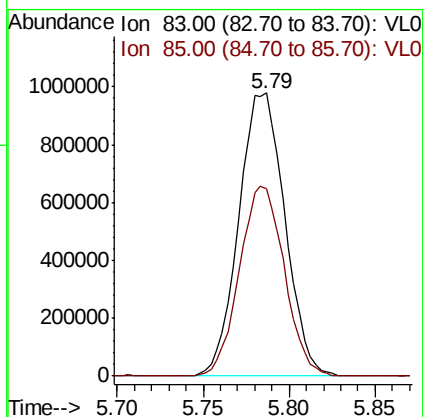
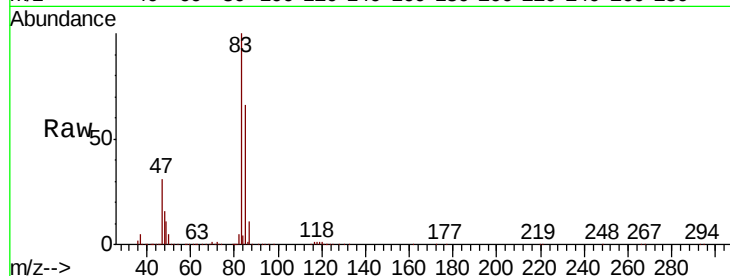
ClientSampled :

Tot Ion: 83 Resp: 1822659

Ion Ratio Lower Upper

83 100

85 66.3 50.5 75.7



#30

Cyclohexane

Concen: 10.644 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

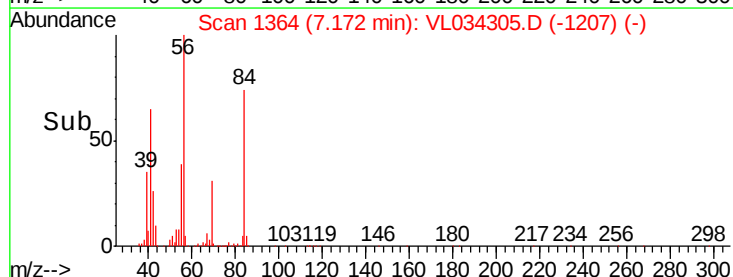
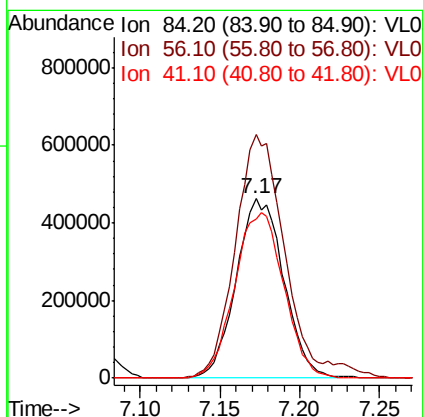
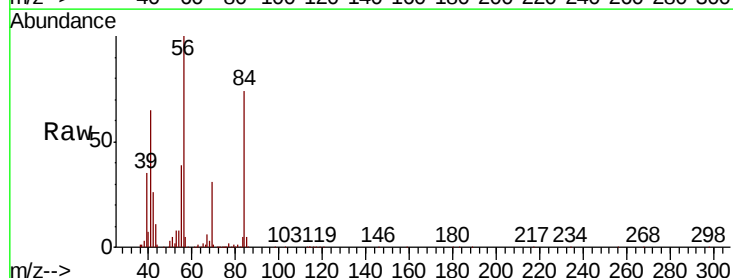
Tgt Ion: 84 Resp: 933945

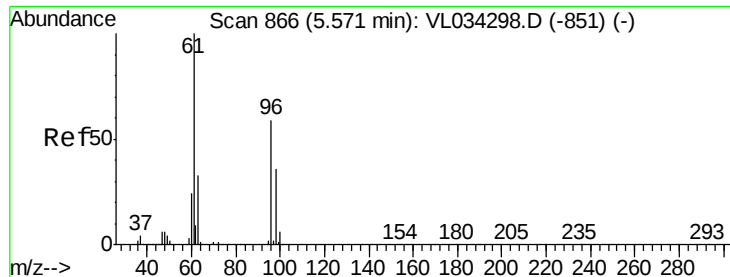
Ion Ratio Lower Upper

84 100

56 144.0 119.4 179.0

41 96.0 78.7 118.1



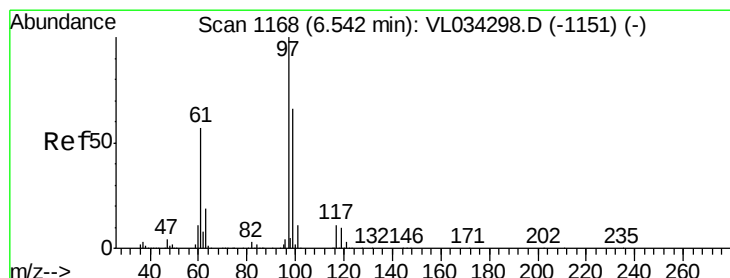
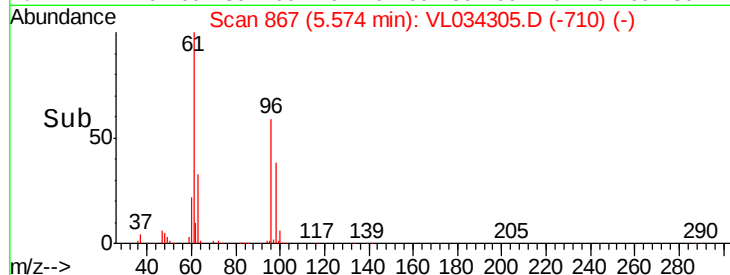
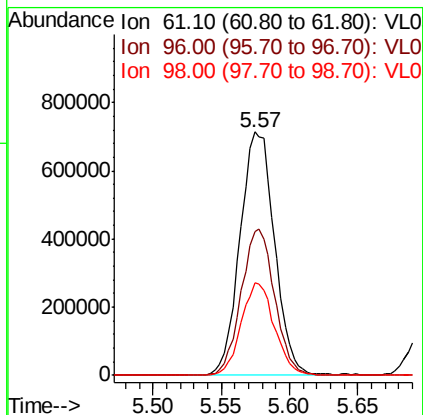
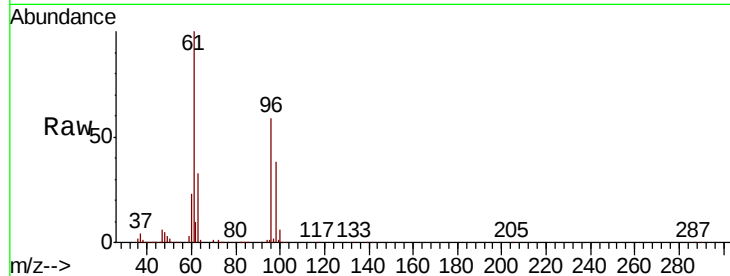


#31

cis-1,2-Dichloroethene
 Concen: 10.383 ppbv
 RT: 5.57 min Scan# 867
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :

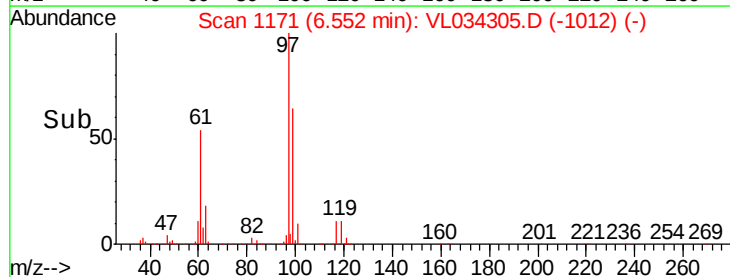
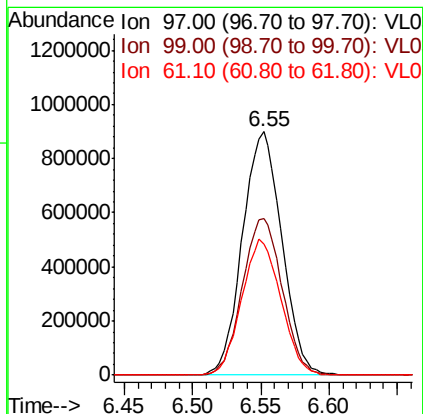
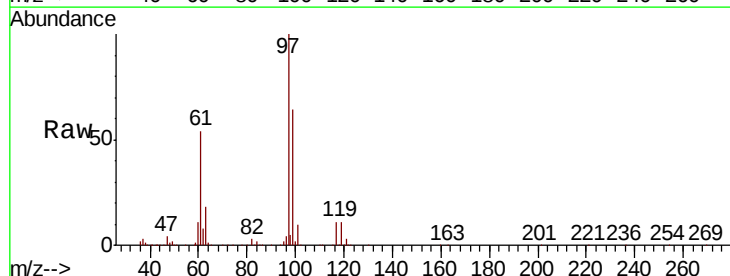
Tot Ion: 61 Resp: 1257229
 Ion Ratio Lower Upper
 61 100
 96 59.2 47.5 71.3
 98 37.9 28.8 43.2

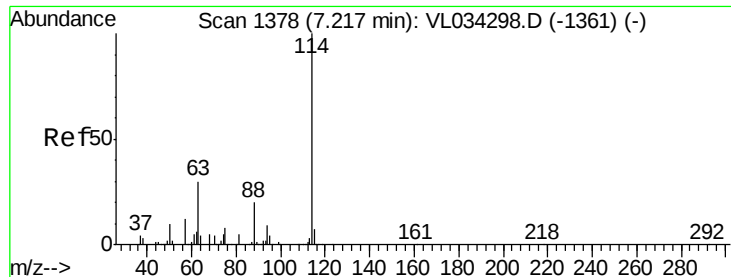


#32

1,1,1-Trichloroethane
 Concen: 9.843 ppbv
 RT: 6.55 min Scan# 1171
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 97 Resp: 1806504
 Ion Ratio Lower Upper
 97 100
 99 65.1 52.6 78.8
 61 55.5 44.5 66.7



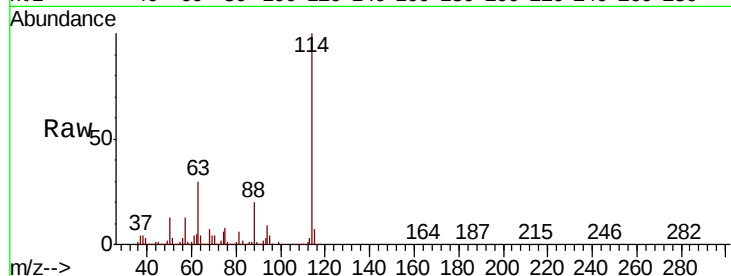


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

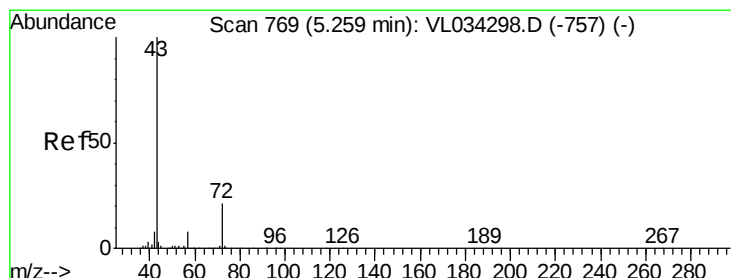
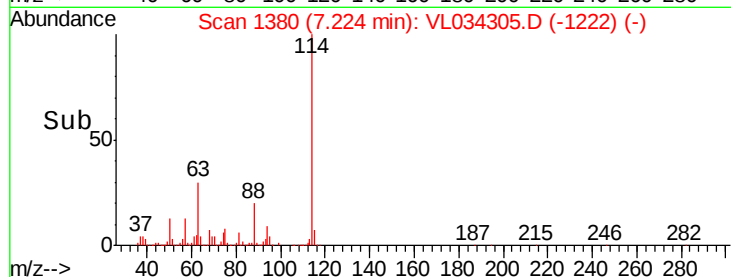
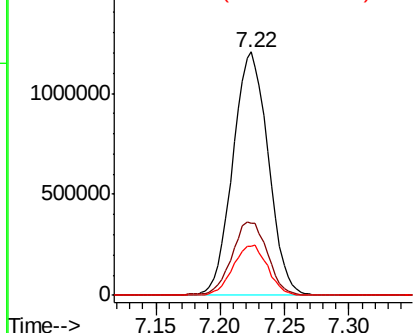
Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 2305387

Ion	Ratio	Lower	Upper
114	100		
63	30.7	25.2	37.8
88	20.2	16.0	24.0



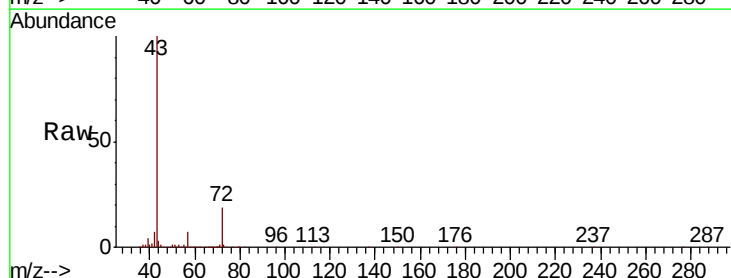
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



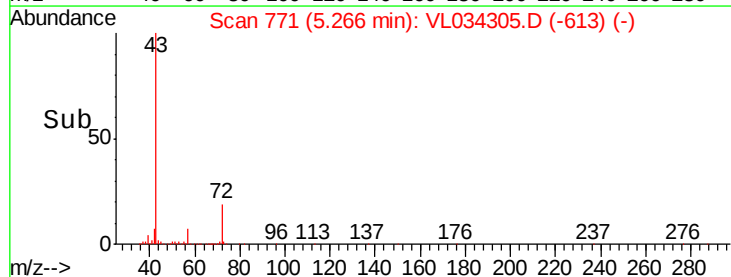
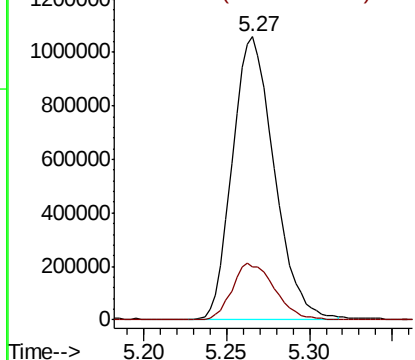
#34
 2-Butanone
 Concen: 9.832 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

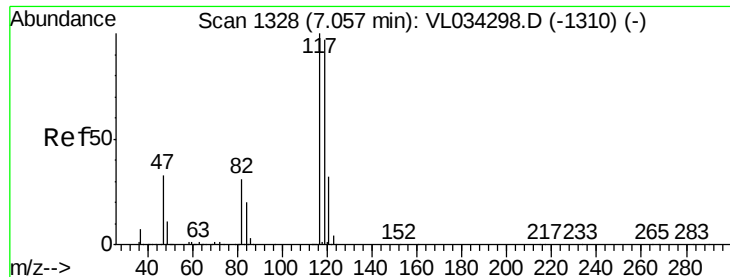
Tgt Ion: 43 Resp: 1852694

Ion	Ratio	Lower	Upper
43	100		
72	20.5	16.3	24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.361 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampled :

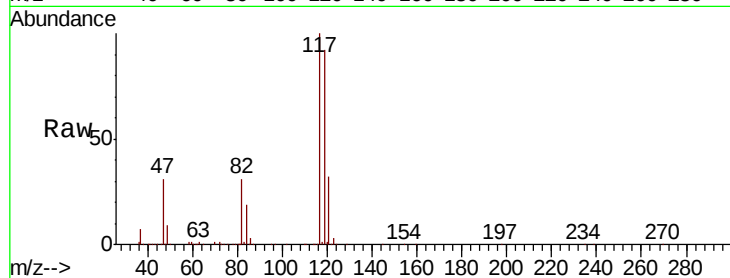
Tot Ion:117 Resp: 1879661

Ion	Ratio	Lower	Upper
117	100		
119	92.3	77.3	115.9
121	31.8	25.5	38.3

117 100

119 92.3 77.3 115.9

121 31.8 25.5 38.3

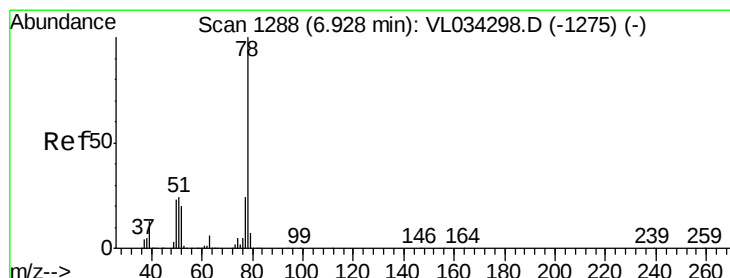
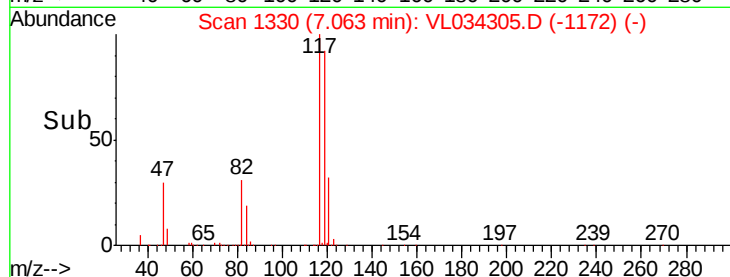
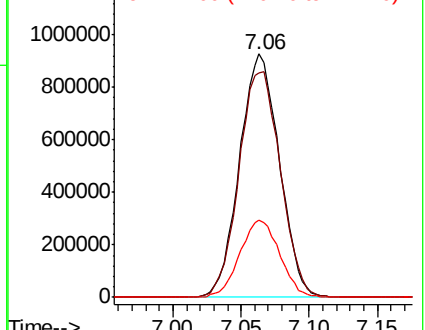


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.940 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

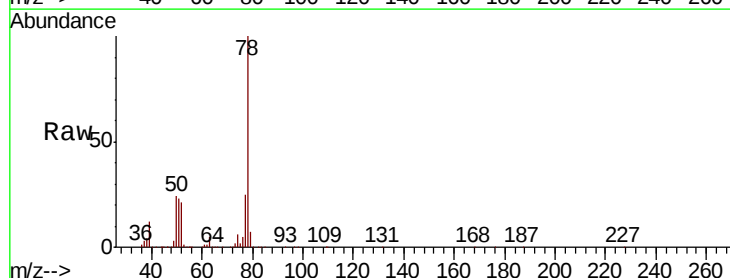
Tgt Ion: 78 Resp: 2198578

Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4
50	23.5	18.6	27.8

78 100

77 24.6 19.0 28.4

50 23.5 18.6 27.8

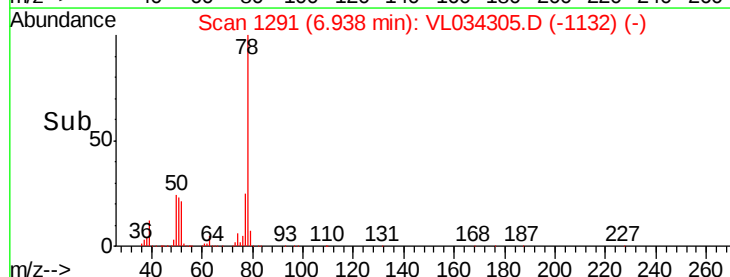
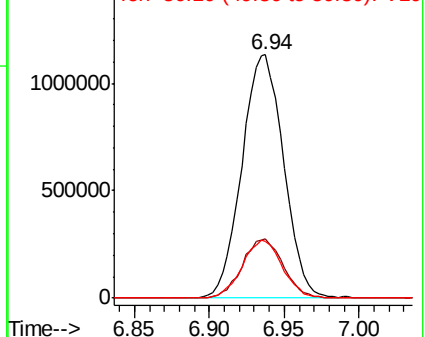


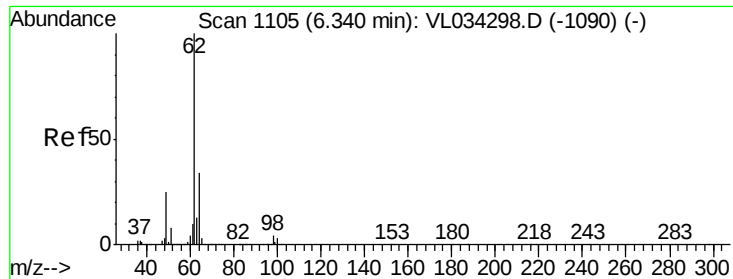
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

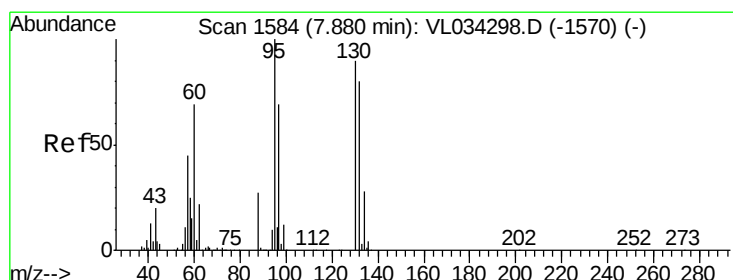
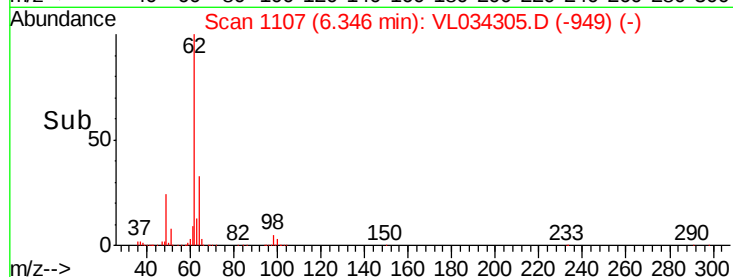
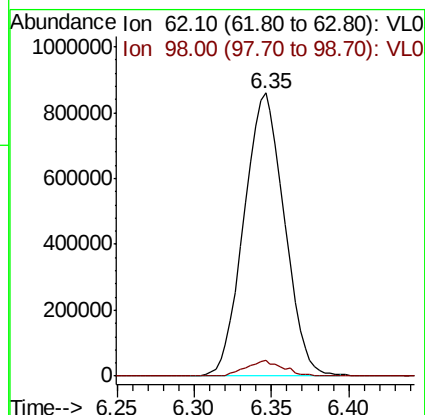
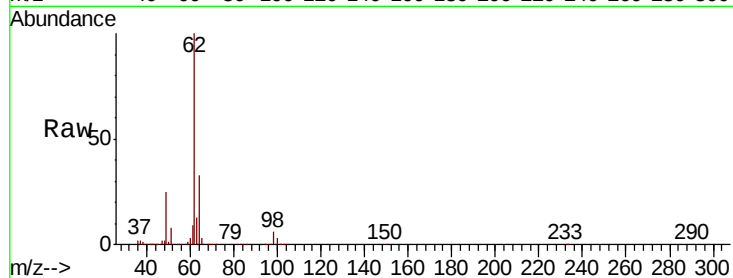




#37
 1,2-Dichloroethane
 Concen: 9.475 ppbv
 RT: 6.35 min Scan# 1107
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

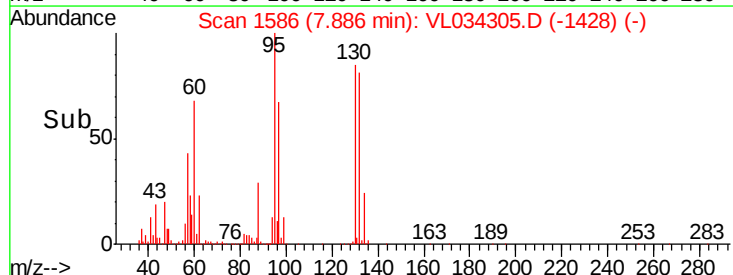
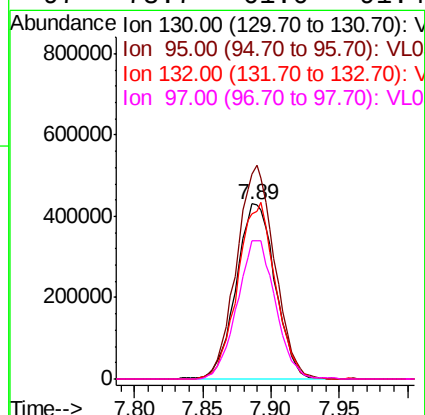
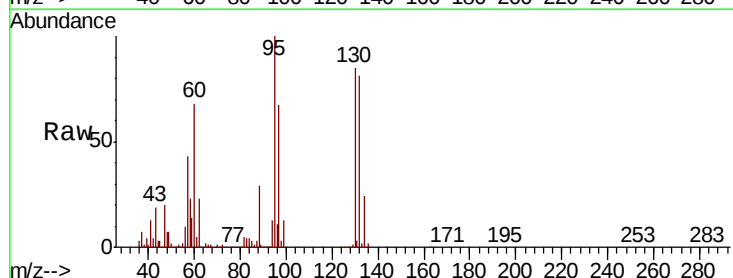
Instrument :
 MSVOA_L
 ClientSampled :

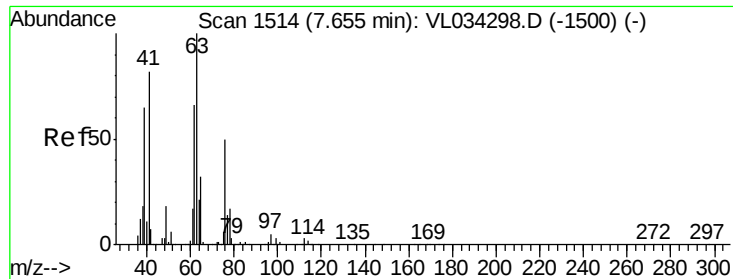
Tot Ion: 62 Resp: 1561898
 Ion Ratio Lower Upper
 62 100
 98 5.1 3.8 5.6



#38
 Trichloroethene
 Concen: 9.555 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 130 Resp: 848140
 Ion Ratio Lower Upper
 130 100
 95 117.3 88.6 132.8
 132 94.5 71.2 106.8
 97 78.7 61.0 91.4

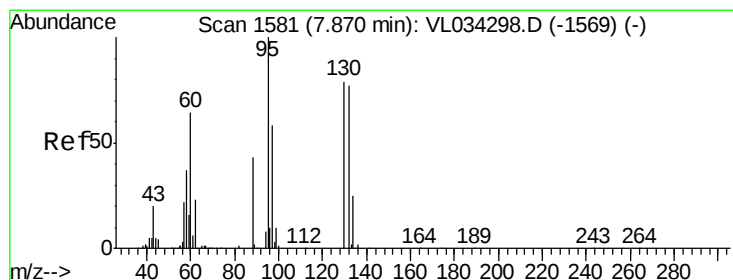
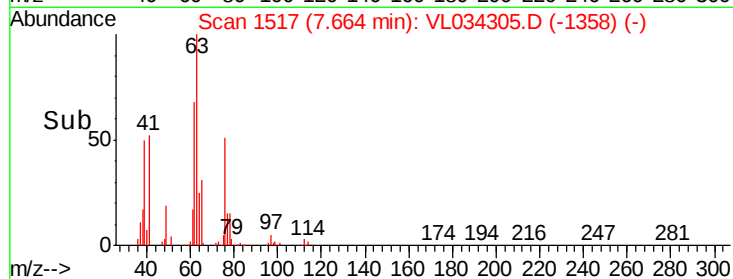
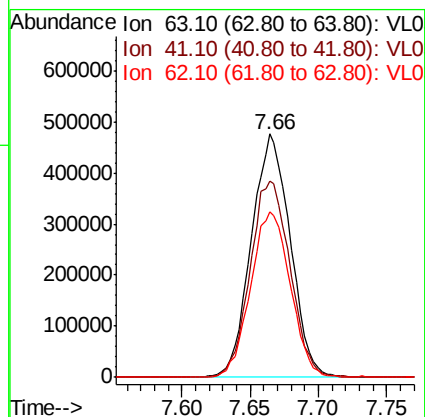
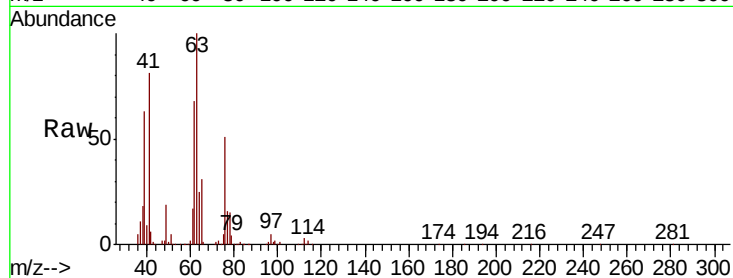




#39
 1,2-Dichloropropane
 Concen: 9.877 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

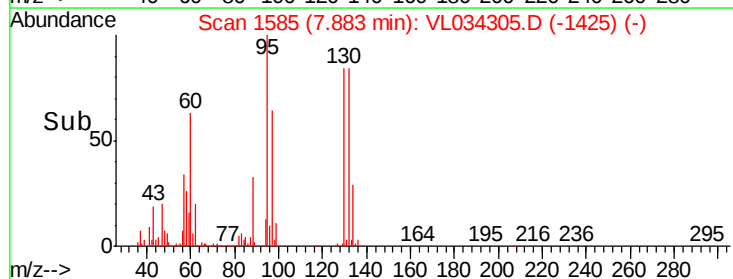
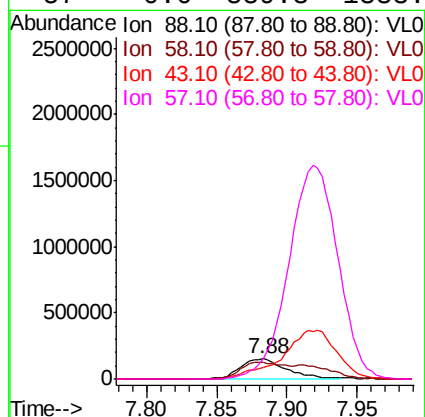
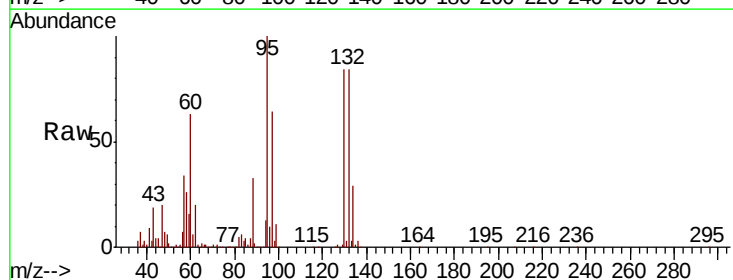
Instrument :
 MSVOA_L
 ClientSampleId :

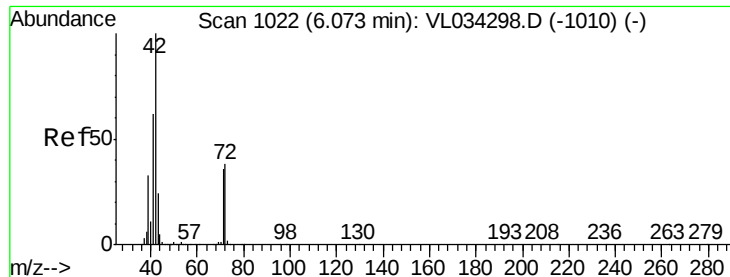
Tot Ion: 63 Resp: 940761
 Ion Ratio Lower Upper
 63 100
 41 80.6 65.6 98.4
 62 68.1 53.0 79.6



#40
 1,4-Dioxane
 Concen: 10.529 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 88 Resp: 352423
 Ion Ratio Lower Upper
 88 100
 58 136.1 110.3 165.5
 43 0.0 228.1 342.1#
 57 0.0 889.3 1333.9#





#41

Tetrahydrofuran

Concen: 10.455 ppbv

RT: 6.08 min Scan# 1023

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

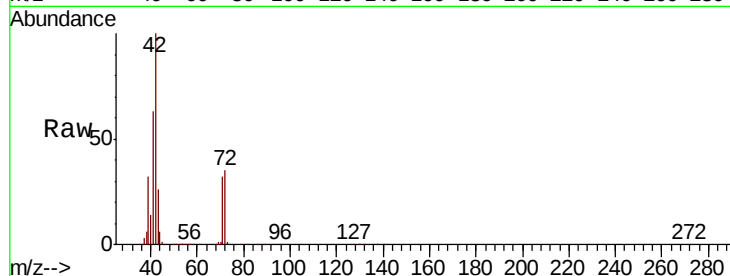
Tot Ion: 42 Resp: 1093320

Ion Ratio Lower Upper

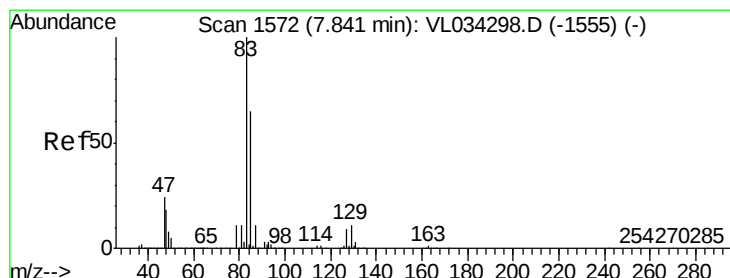
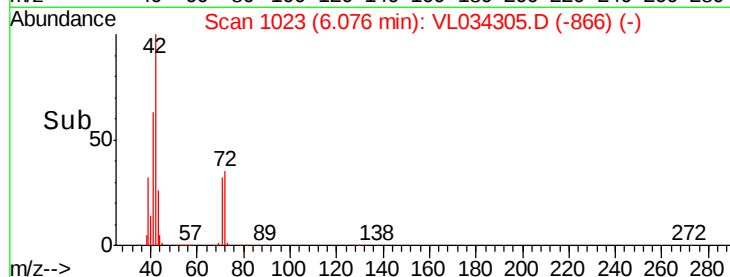
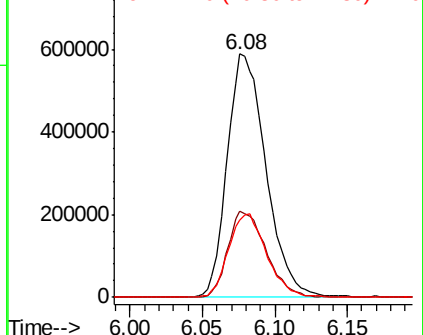
42 100

72 35.1 28.0 42.0

71 33.9 27.3 40.9



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.993 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

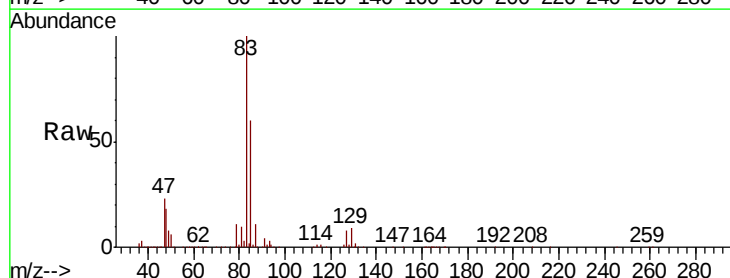
Tgt Ion: 83 Resp: 2017752

Ion Ratio Lower Upper

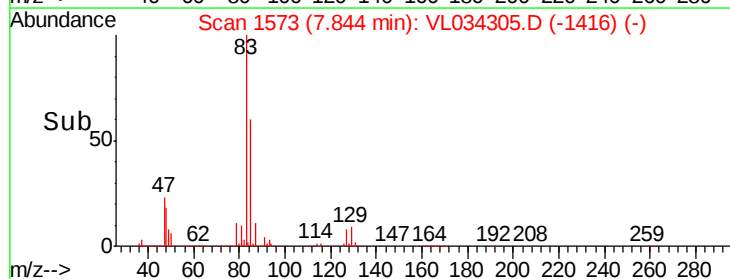
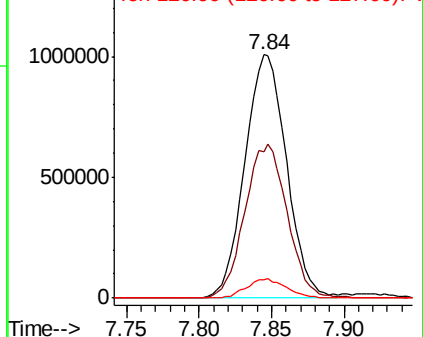
83 100

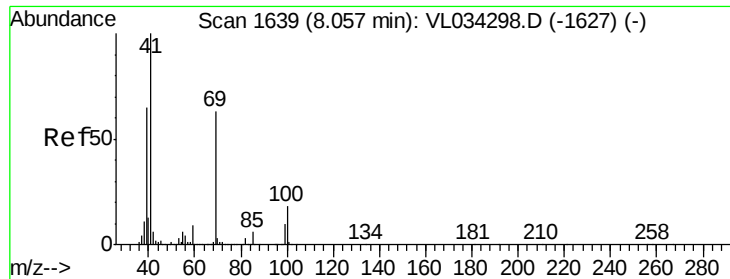
85 60.1 51.8 77.6

127 7.6 7.0 10.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

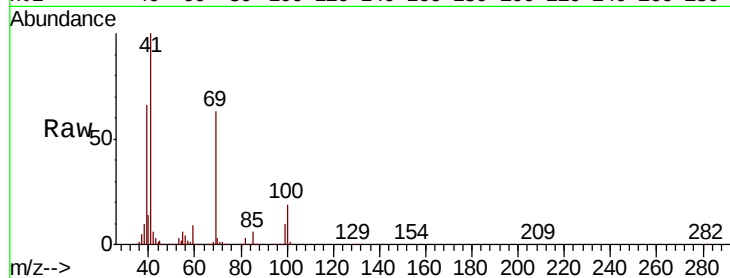




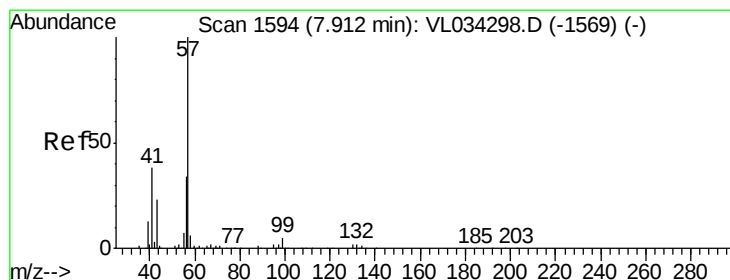
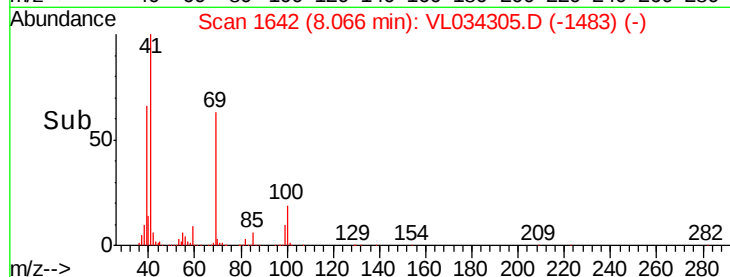
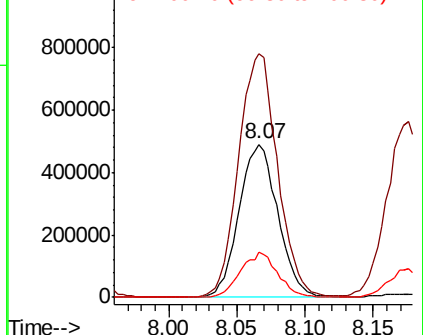
#43
Methvl Methacrvlate
Concen: 10.590 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 69 Resp: 968827
Ion Ratio Lower Upper
69 100
41 159.8 132.1 198.1
100 28.3 23.2 34.8

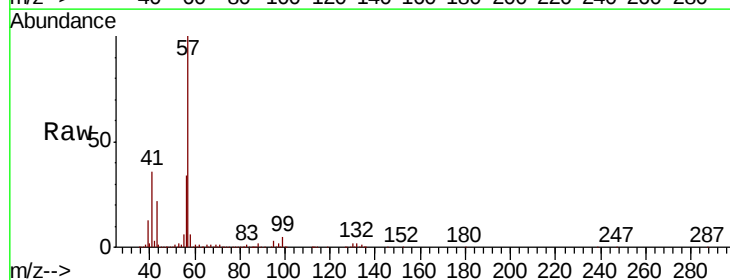


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

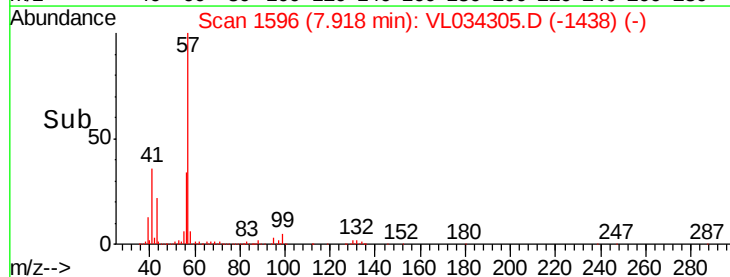
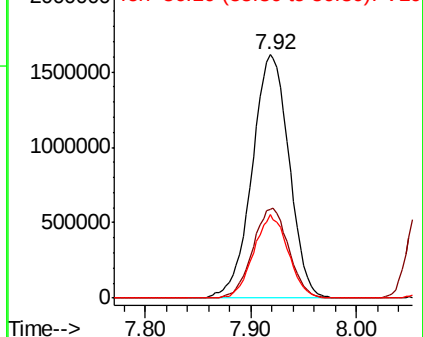


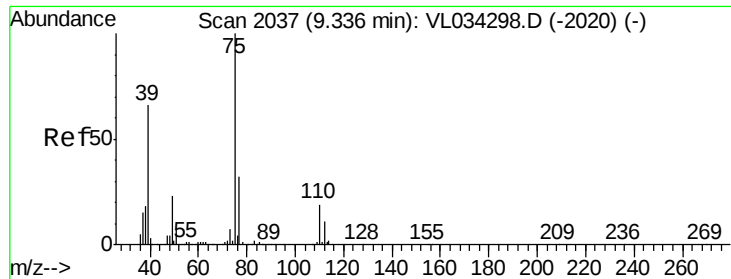
#44
2,2,4-Trimethylpentane
Concen: 9.612 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 57 Resp: 3935084
Ion Ratio Lower Upper
57 100
41 35.9 29.3 43.9
56 31.9 25.3 37.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

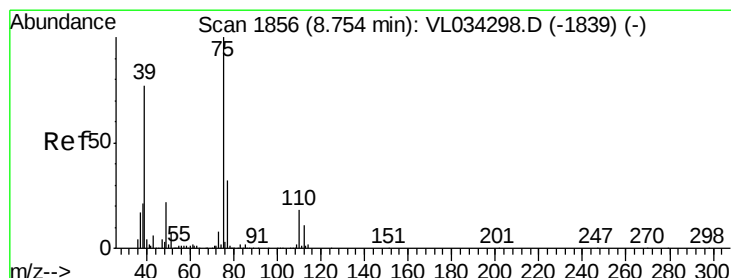
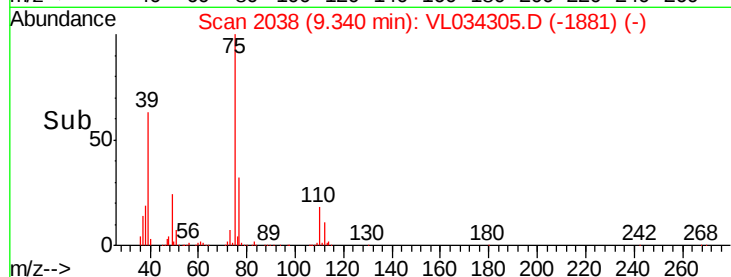
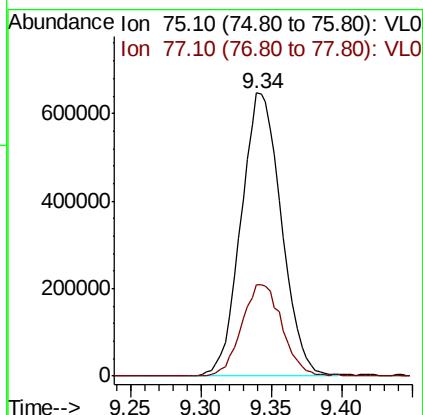
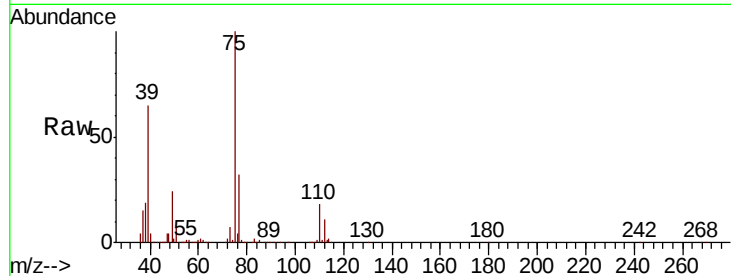




#45
 t-1,3-Dichloropropene
 Concen: 11.605 ppbv
 RT: 9.34 min Scan# 2038
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

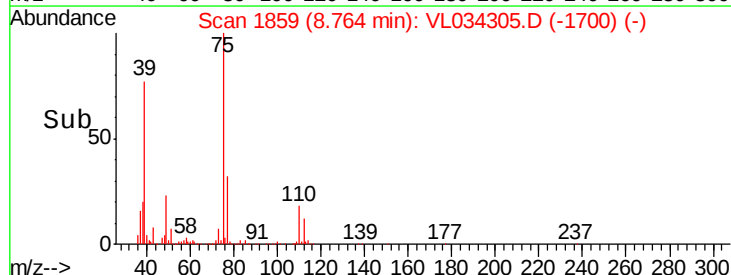
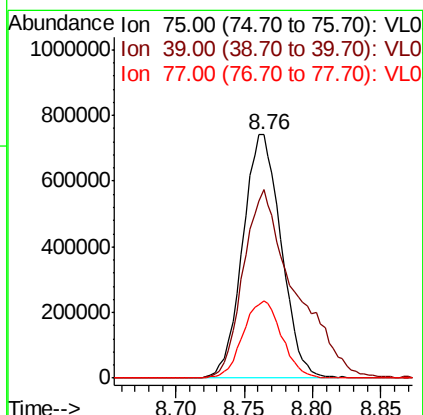
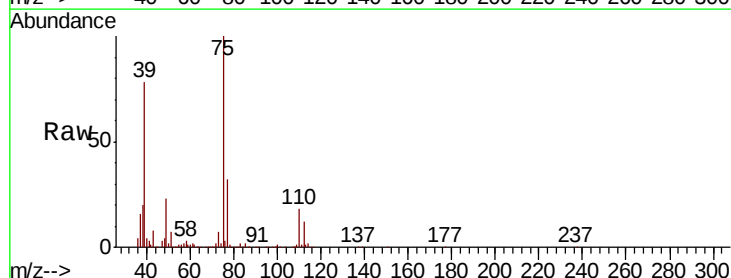
Instrument :
 MSVOA_L
 ClientSampleId :

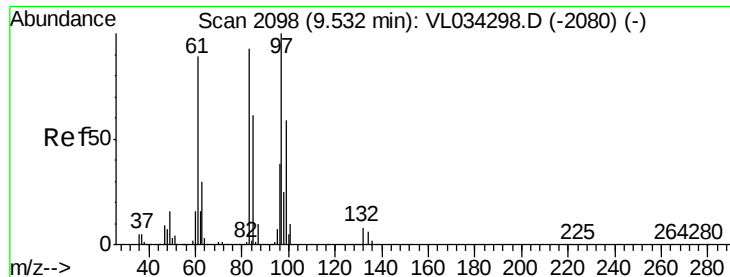
Tot Ion: 75 Resp: 1293484
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.6 38.4



#46
 cis-1,3-Dichloropropene
 Concen: 11.302 ppbv
 RT: 8.76 min Scan# 1859
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 75 Resp: 1447298
 Ion Ratio Lower Upper
 75 100
 39 77.5 61.2 91.8
 77 31.9 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 9.594 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 925615

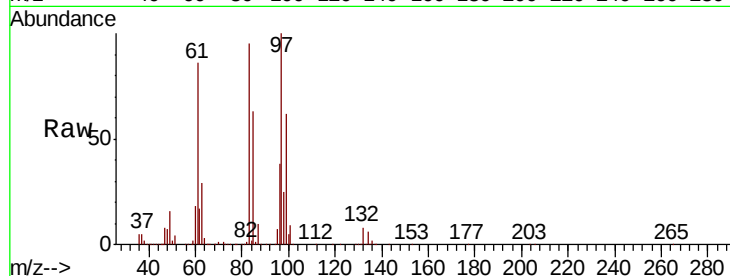
Ion Ratio Lower Upper

97 100

83 95.3 74.2 111.2

85 62.9 48.6 73.0

99 62.5 47.0 70.6

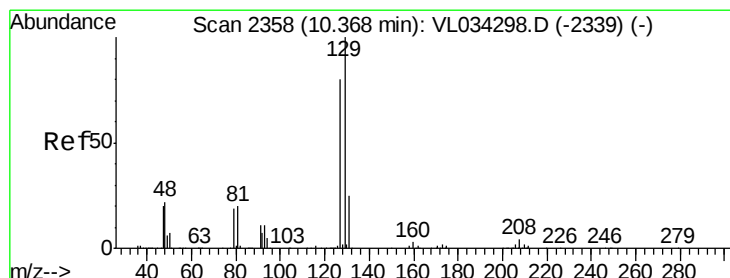
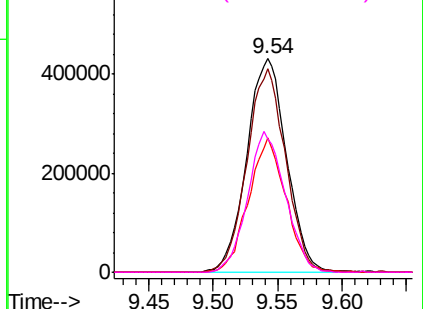
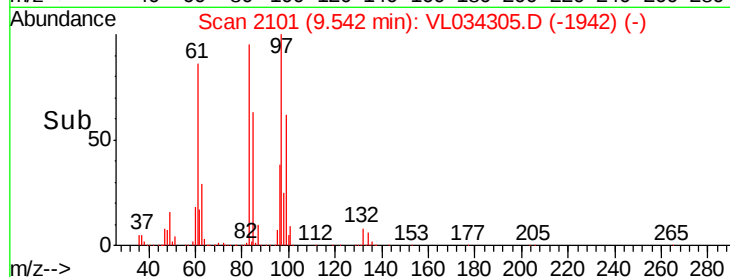


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.444 ppbv

RT: 10.37 min Scan# 2360

Delta R.T. 0.01 min

Lab File: VL034305.D

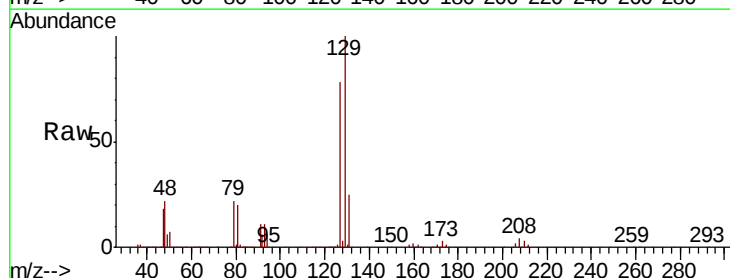
Acq: 16 Oct 2019 18:45

Tgt Ion: 129 Resp: 1652860

Ion Ratio Lower Upper

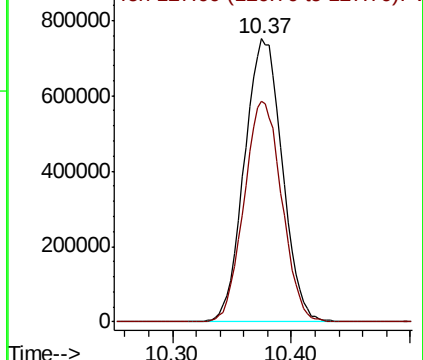
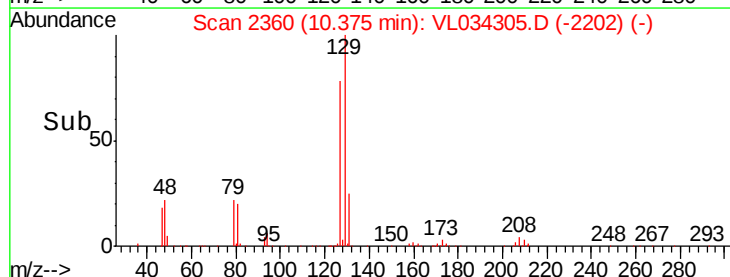
129 100

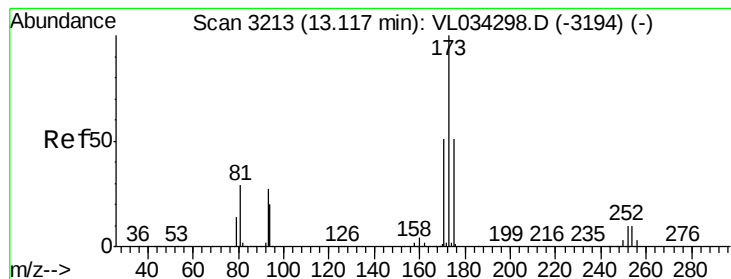
127 77.8 39.7 119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.408 ppbv

RT: 13.12 min Scan# 3215

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampled :

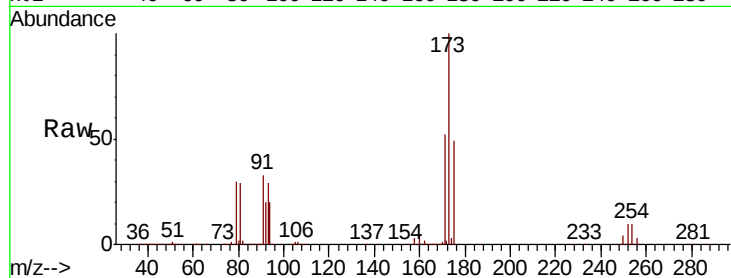
Tot Ion:173 Resp: 1459511

Ion Ratio Lower Upper

173 100

175 50.0 39.8 59.6

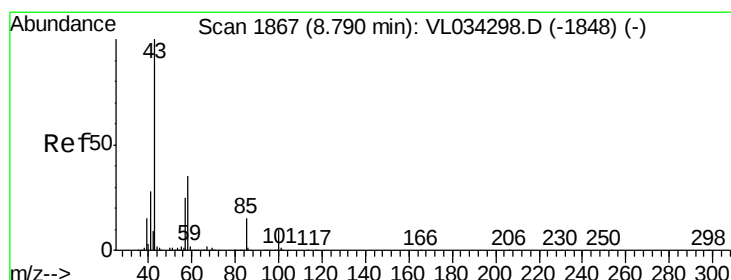
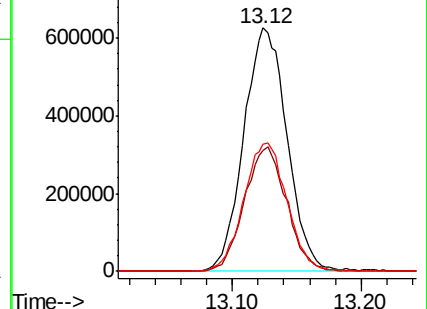
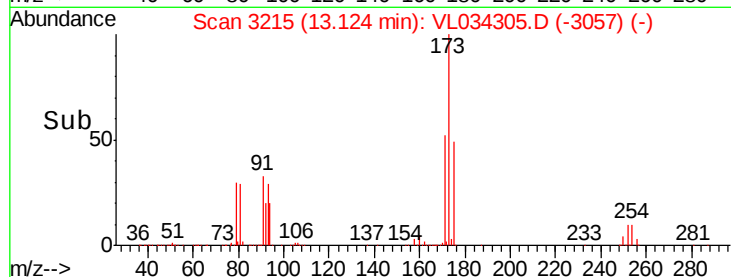
171 52.9 41.8 62.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.072 ppbv

RT: 8.80 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VL034305.D

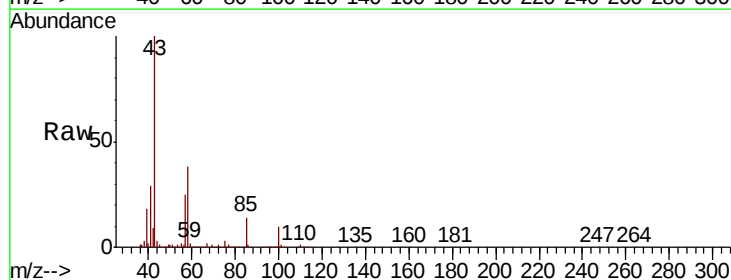
Acq: 16 Oct 2019 18:45

Tgt Ion: 43 Resp: 2717097

Ion Ratio Lower Upper

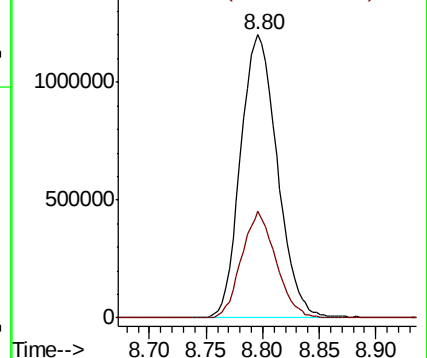
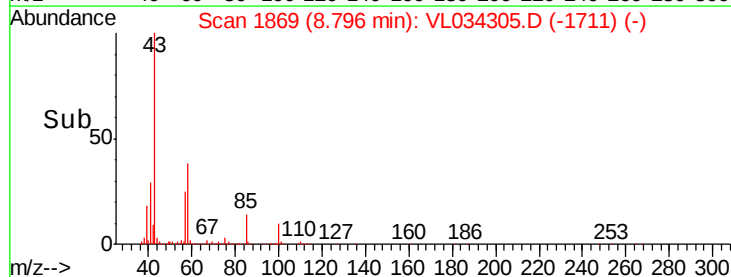
43 100

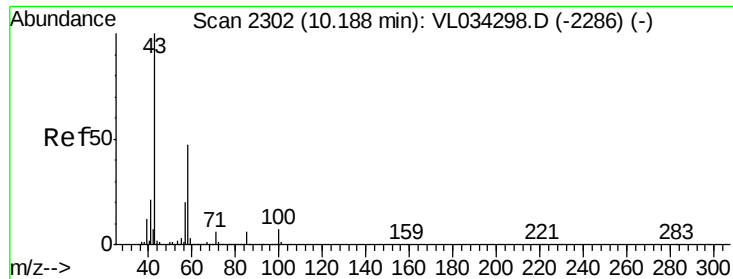
58 35.2 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

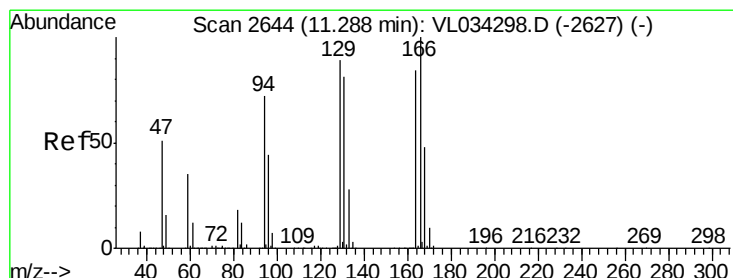
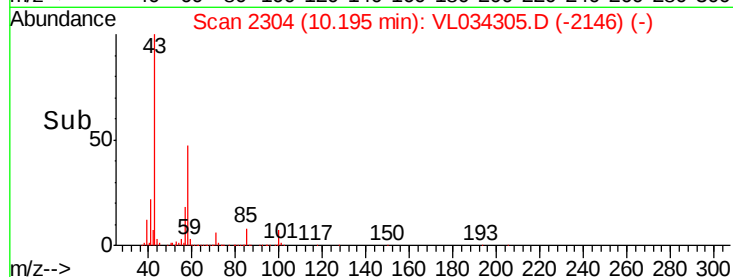
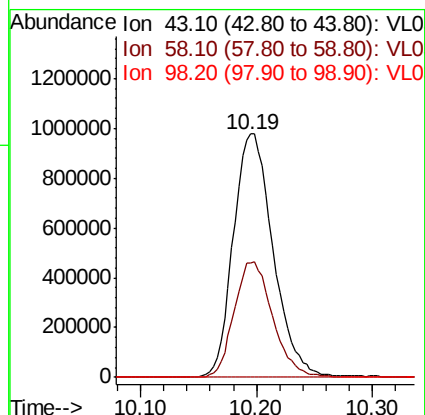
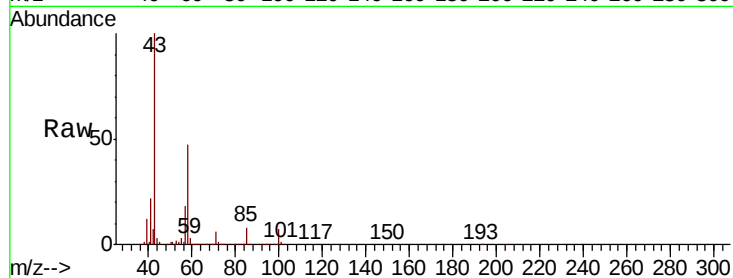




#51
2-Hexanone
Concen: 10.516 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

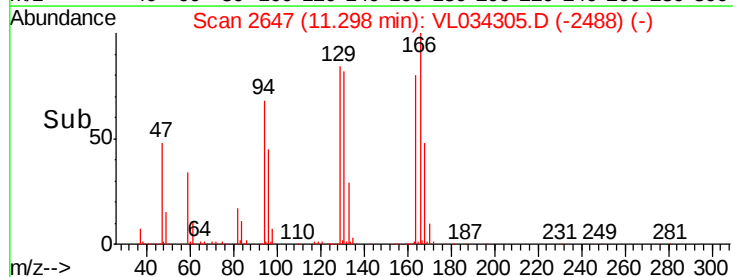
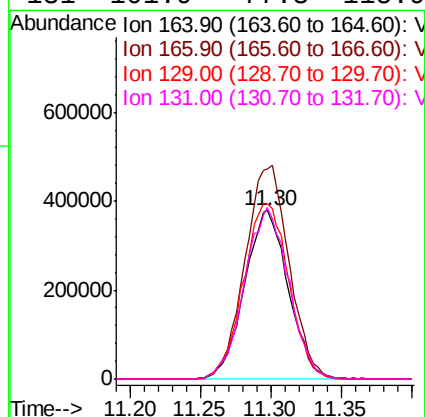
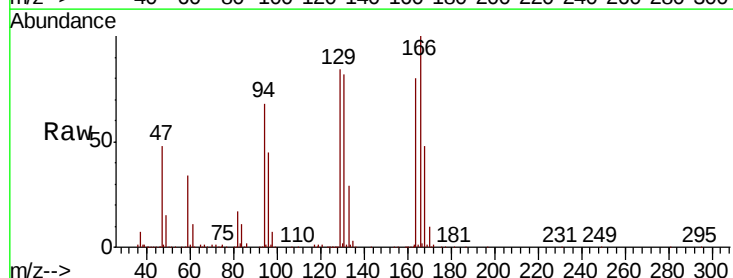
Instrument :
MSVOA_L
ClientSampleId :

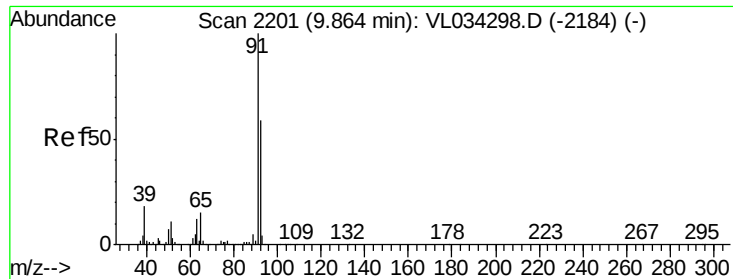
Tot Ion: 43 Resp: 2325468
Ion Ratio Lower Upper
43 100
58 46.2 37.0 55.6
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 9.414 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 164 Resp: 816233
Ion Ratio Lower Upper
164 100
166 124.3 95.3 142.9
129 104.0 84.5 126.7
131 101.9 77.3 115.9





#53

Toluene

Concen: 10.406 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

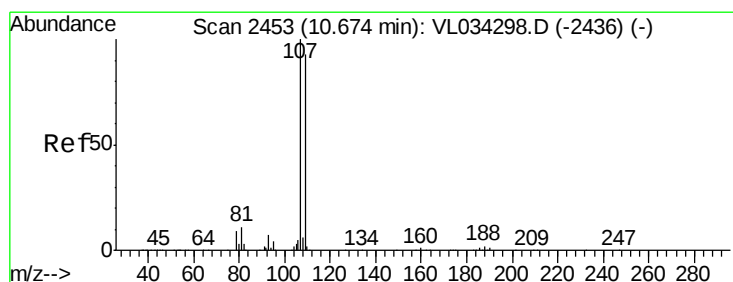
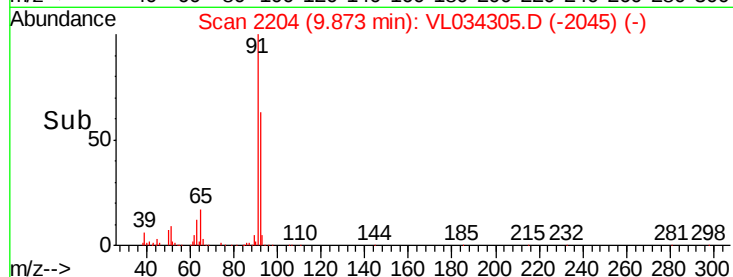
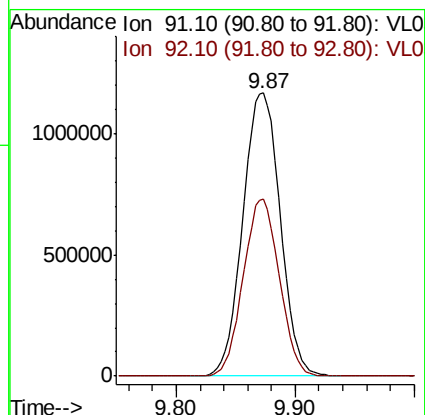
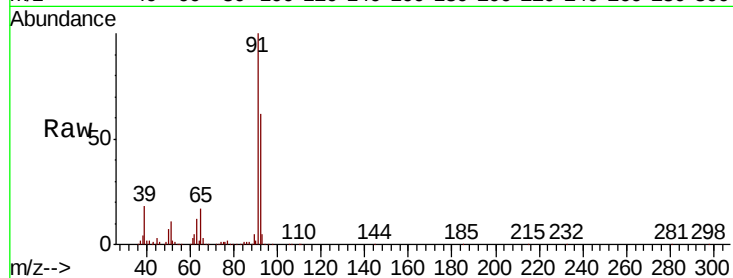
ClientSampleId :

Tot Ion: 91 Resp: 2540122

Ion Ratio Lower Upper

91 100

92 60.4 48.4 72.6



#54

1,2-Dibromoethane

Concen: 9.708 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. 0.01 min

Lab File: VL034305.D

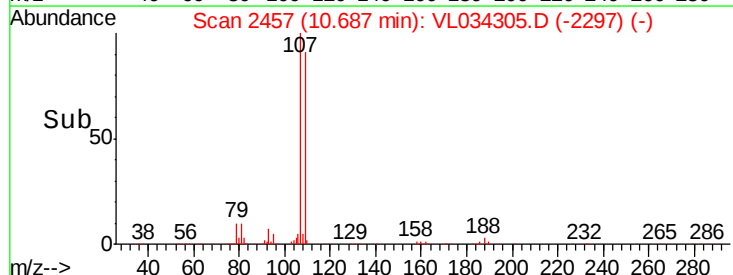
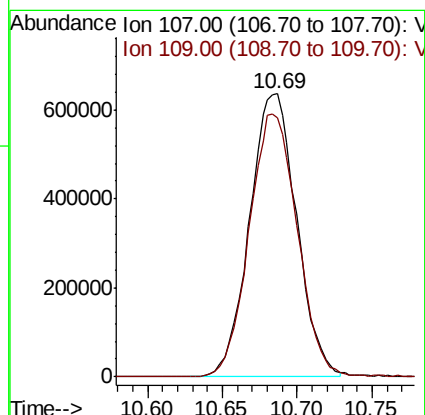
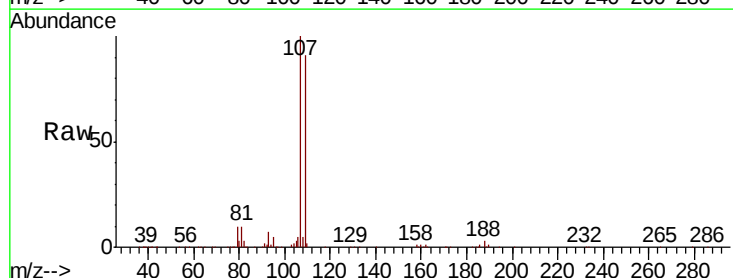
Acq: 16 Oct 2019 18:45

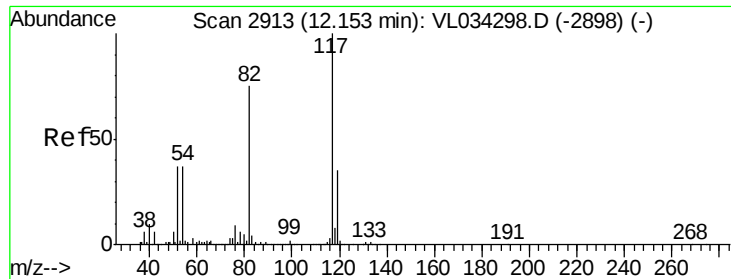
Tgt Ion: 107 Resp: 1388094

Ion Ratio Lower Upper

107 100

109 91.4 74.6 112.0

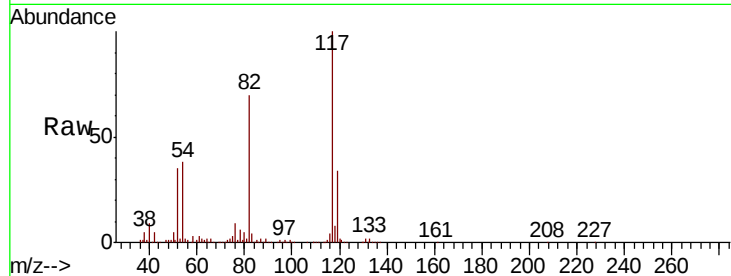




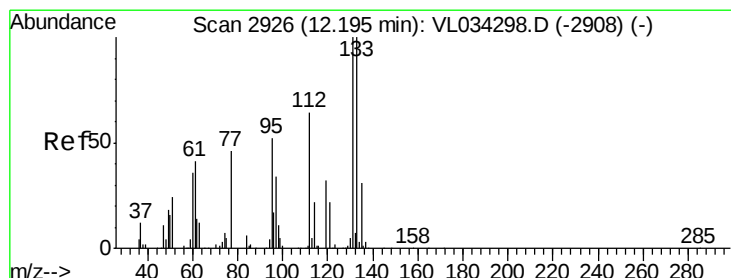
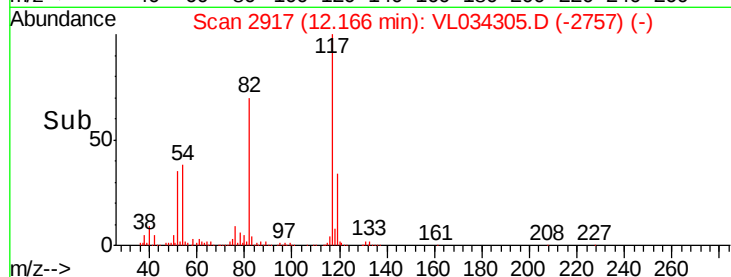
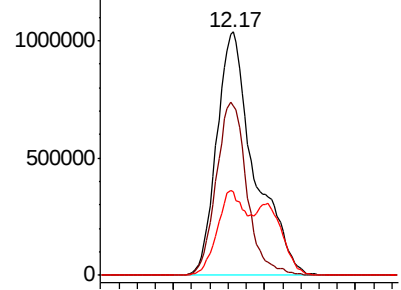
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2985271
Ion Ratio Lower Upper
117 100
82 58.2 55.5 83.3
119 26.6 26.5 39.7

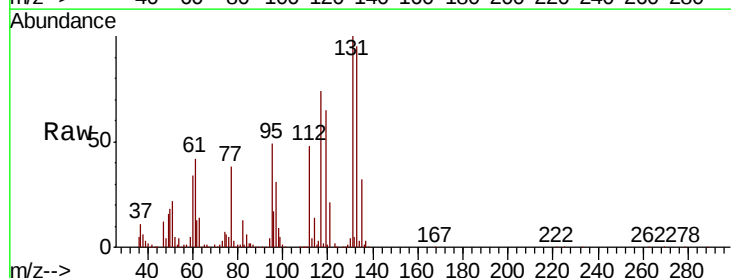


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

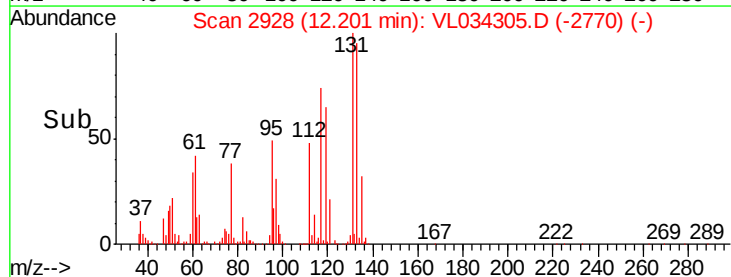
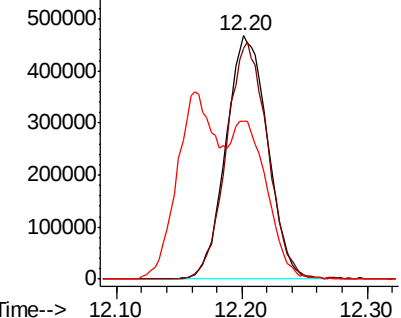


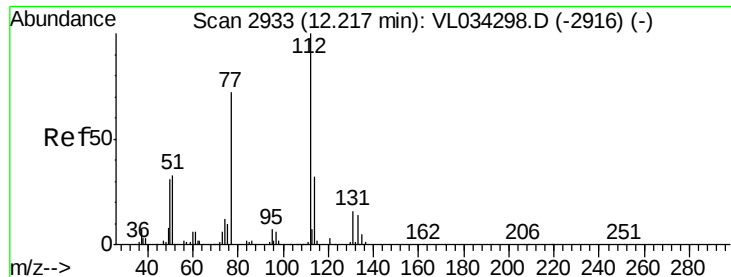
#56
1,1,1,2-Tetrachloroethane
Concen: 7.852 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion:131 Resp: 1080205
Ion Ratio Lower Upper
131 100
133 96.7 77.1 115.7
119 54.7 49.0 73.4



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.645 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

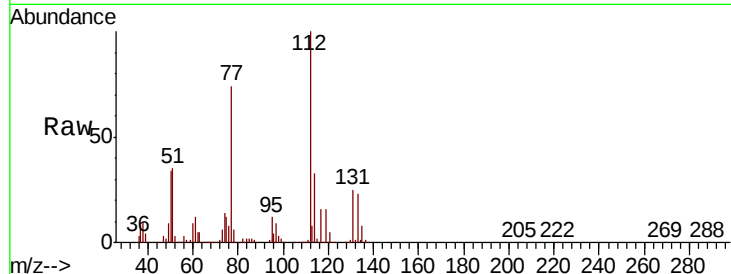
Tot Ion:112 Resp: 1904062

Ion Ratio Lower Upper

112 100

77 73.4 58.6 88.0

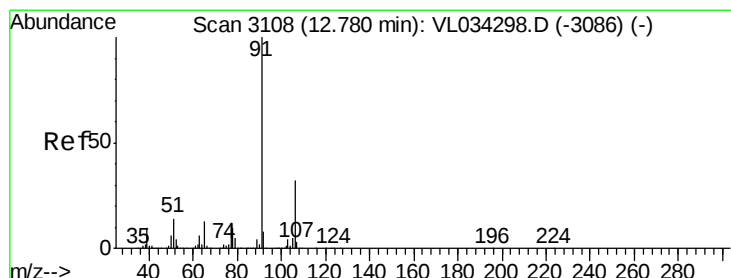
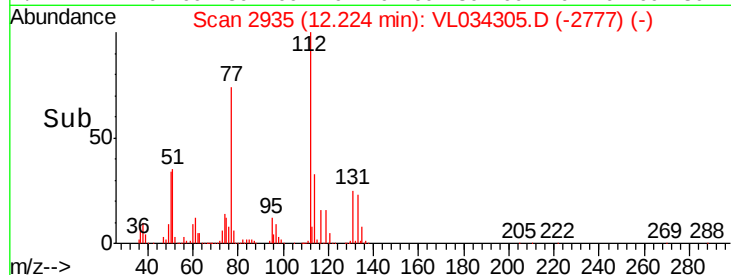
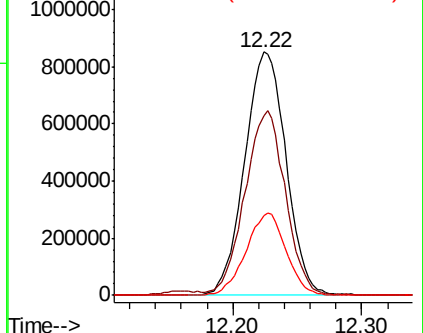
114 32.9 28.6 35.0



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.229 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. 0.01 min

Lab File: VL034305.D

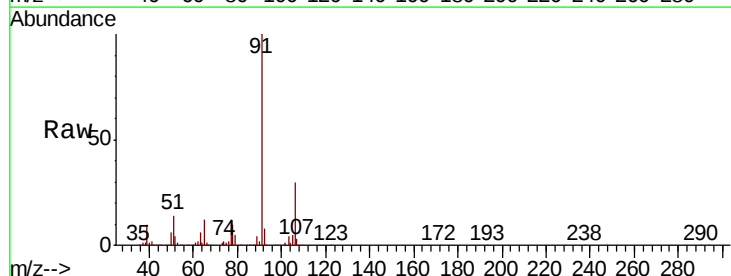
Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 3434045

Ion Ratio Lower Upper

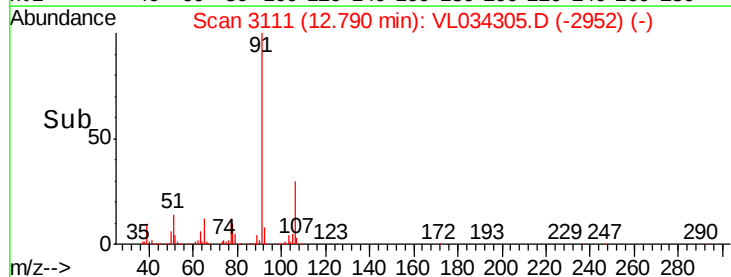
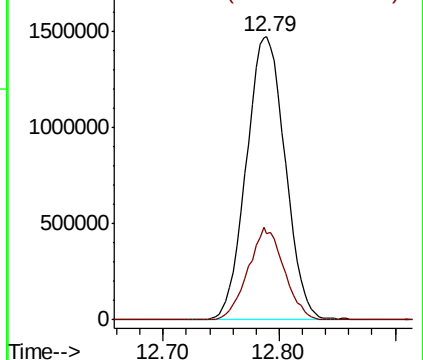
91 100

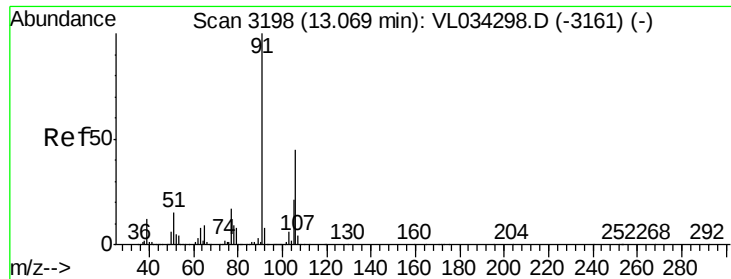
106 30.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 8.215 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

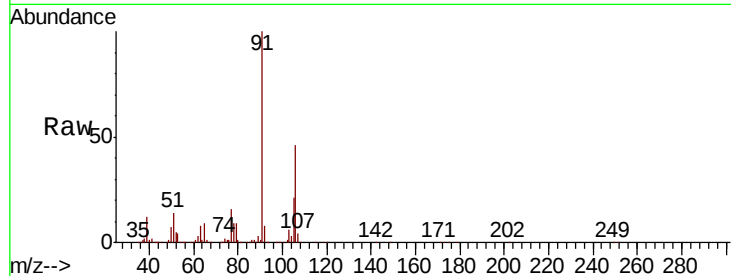
ClientSampleId :

Tot Ion: 91 Resp: 2970391

Ion Ratio Lower Upper

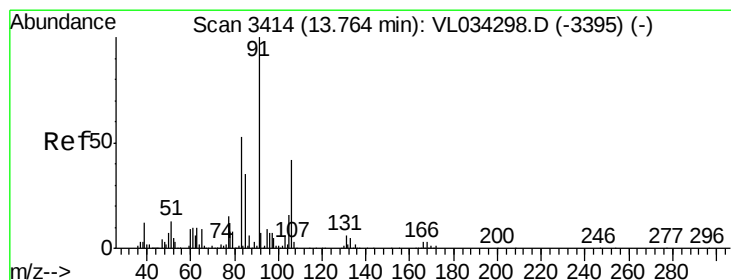
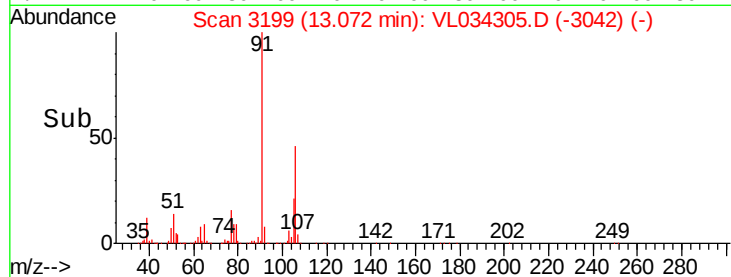
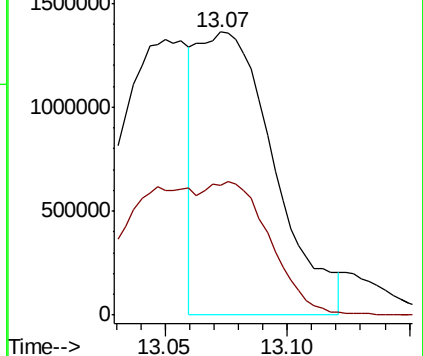
91 100

106 85.8 35.4 53.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 7.883 ppbv

RT: 13.77 min Scan# 3417

Delta R.T. 0.01 min

Lab File: VL034305.D

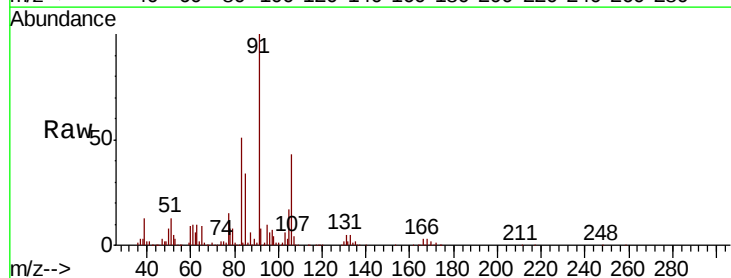
Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 2838167

Ion Ratio Lower Upper

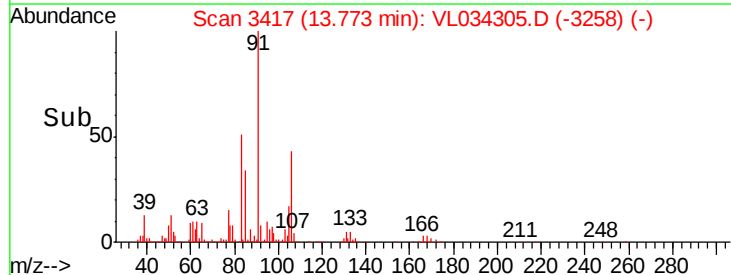
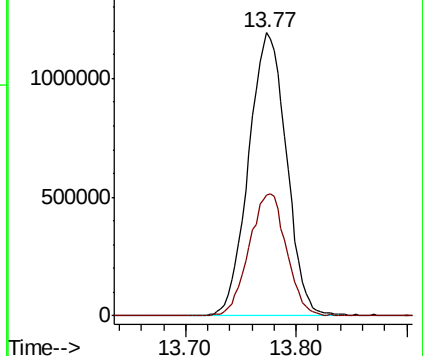
91 100

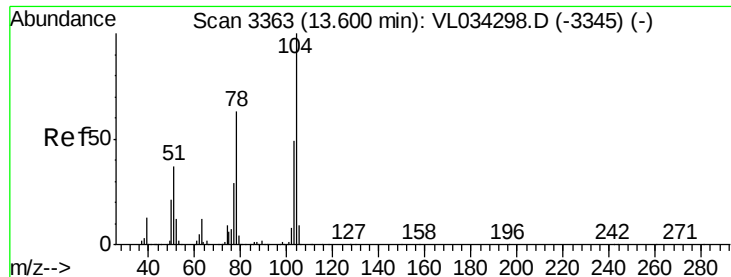
106 42.8 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

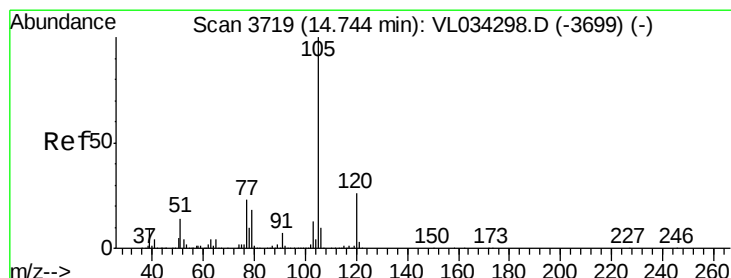
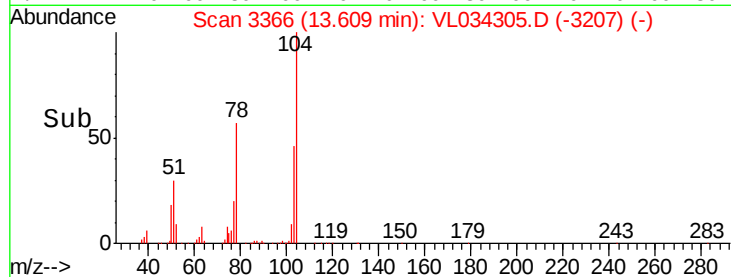
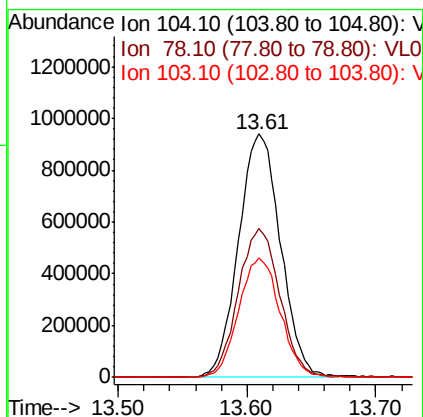
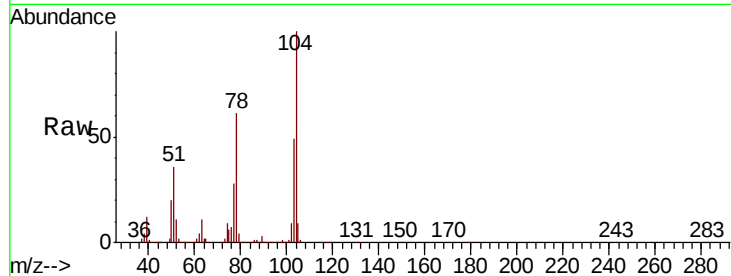




#61
Stvrene
Concen: 8.423 ppbv
RT: 13.61 min Scan# 3366
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

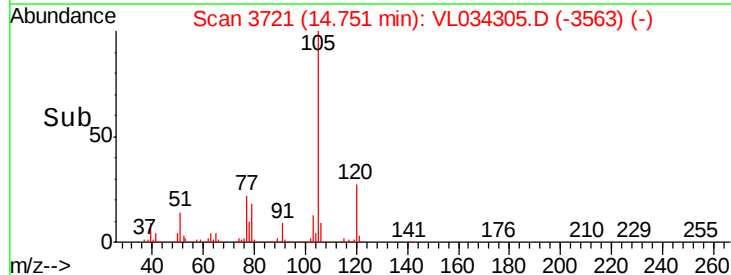
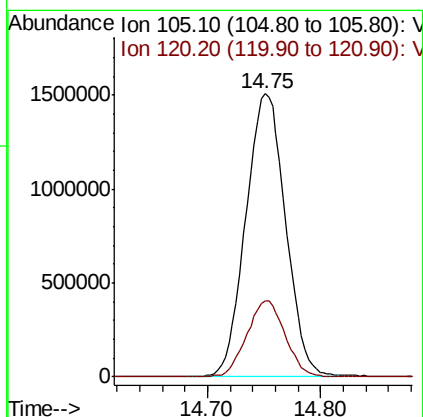
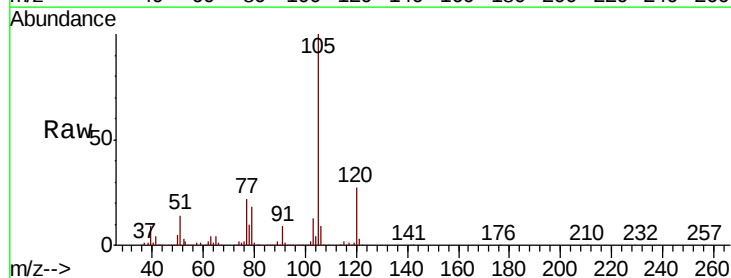
Instrument :
MSVOA_L
ClientSampleId :

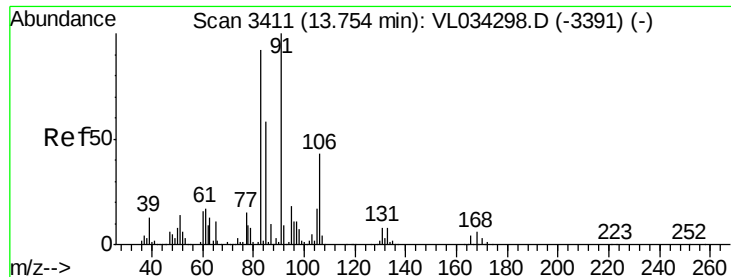
Tot Ion:104 Resp: 2135070
Ion Ratio Lower Upper
104 100
78 60.8 47.8 71.8
103 48.7 39.0 58.6



#62
Isopropylbenzene
Concen: 7.766 ppbv
RT: 14.75 min Scan# 3721
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3691089
Ion Ratio Lower Upper
105 100
120 26.0 20.8 31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 6.765 ppbv

RT: 13.76 min Scan# 3413

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

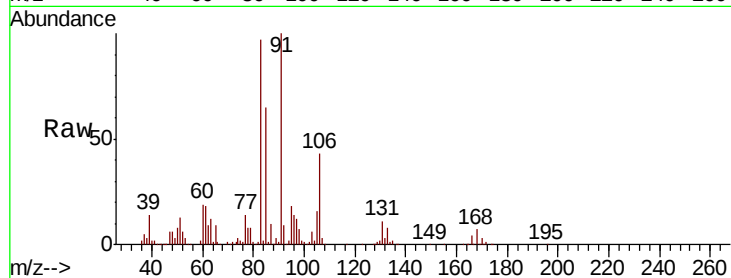
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 83 Resp: 1957314

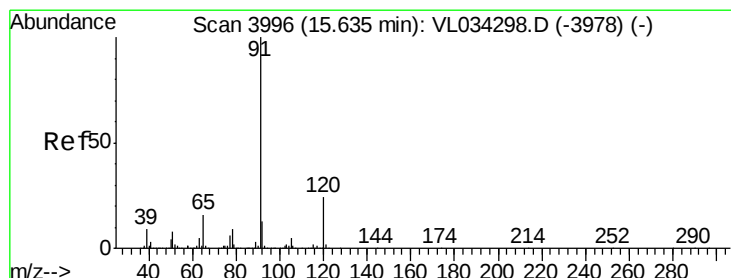
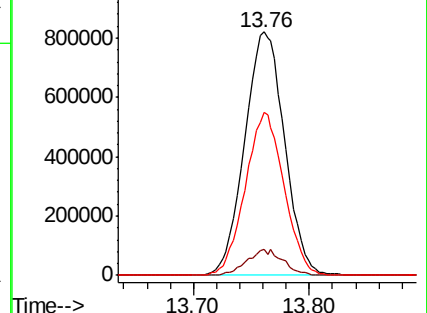
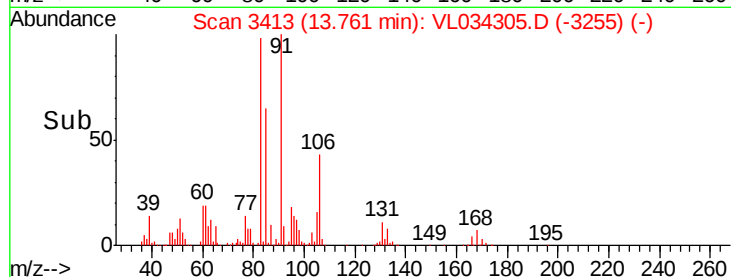
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.2	32.5	97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.017 ppbv

RT: 15.65 min Scan# 4000

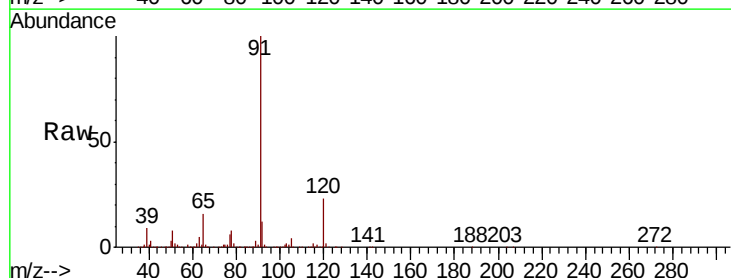
Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

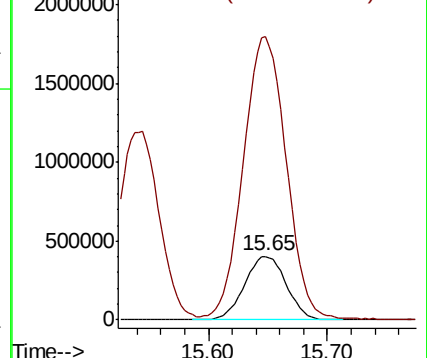
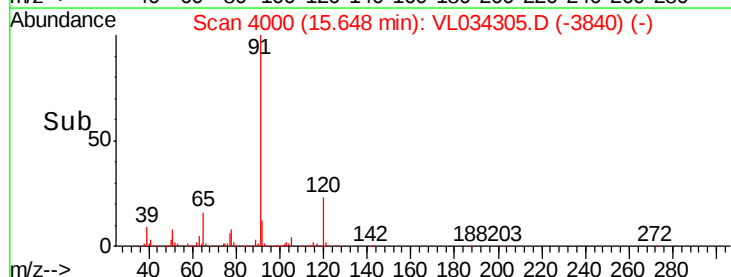
Tgt Ion:120 Resp: 977895

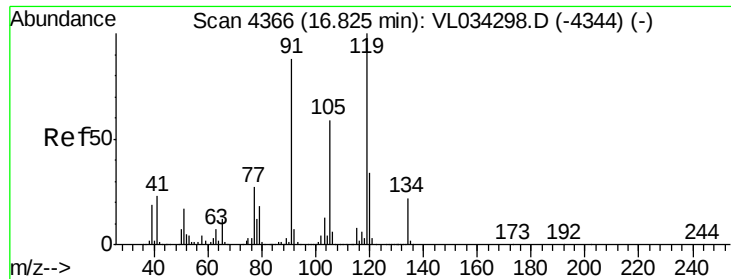
Ion	Ratio	Lower	Upper
120	100		
91	461.5	374.9	562.3



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

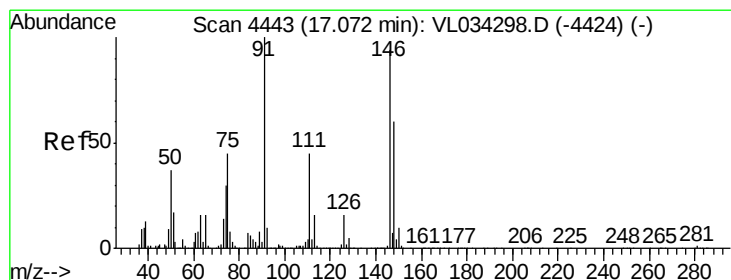
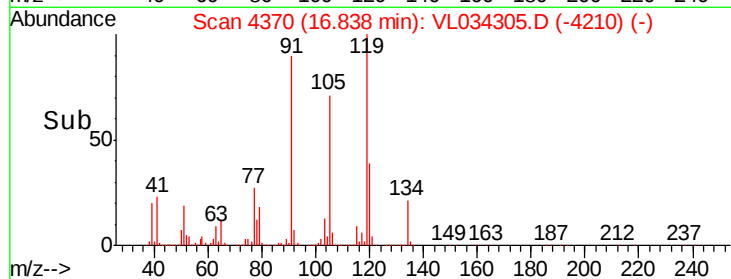
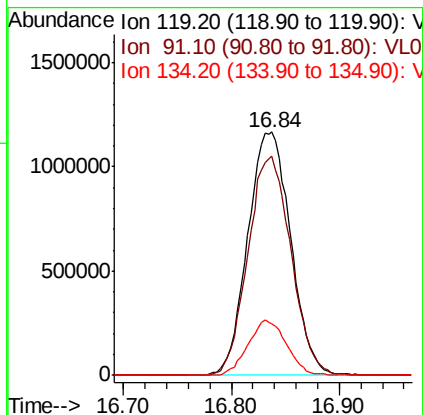
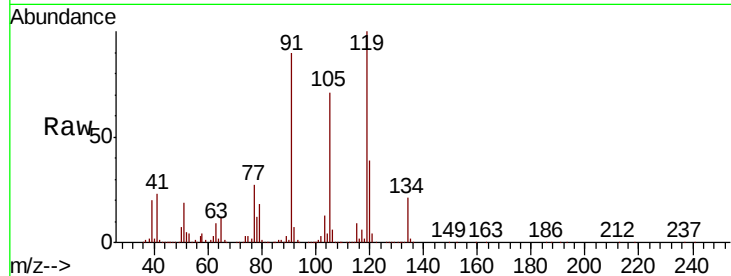




#65
tert-Butylbenzene
Concen: 7.641 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

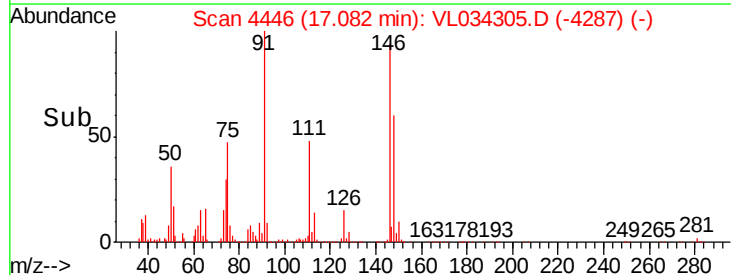
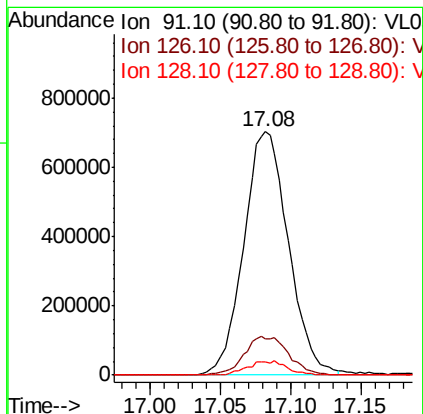
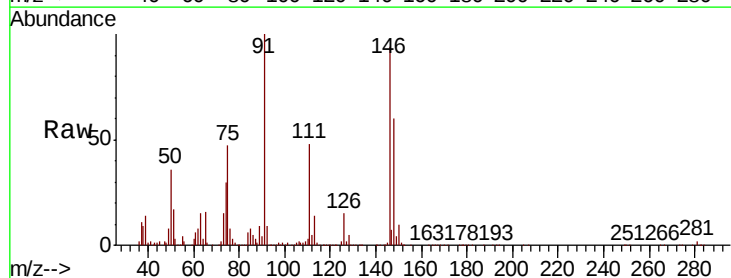
Instrument :
MSVOA_L
ClientSampleId :

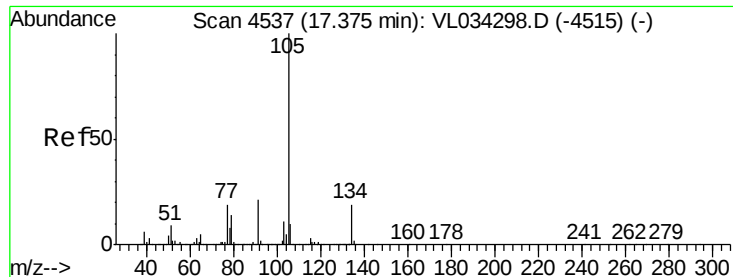
Tot Ion:119 Resp: 3218752
Ion Ratio Lower Upper
119 100
91 90.4 71.4 107.0
134 20.4 15.9 23.9



#66
Benzyl Chloride
Concen: 9.319 ppbv
RT: 17.08 min Scan# 4446
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 1550399
Ion Ratio Lower Upper
91 100
126 16.0 12.9 19.3
128 5.3 4.3 6.5





#67

sec-Butylbenzene

Concen: 7.538 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

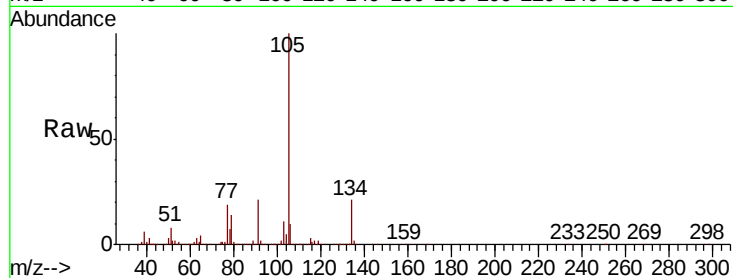
ClientSampleId :

Tot Ion:105 Resp: 4468598

Ion Ratio Lower Upper

105 100

134 19.3 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V

2000000 Ion 134.20 (133.90 to 134.90): V

17.38

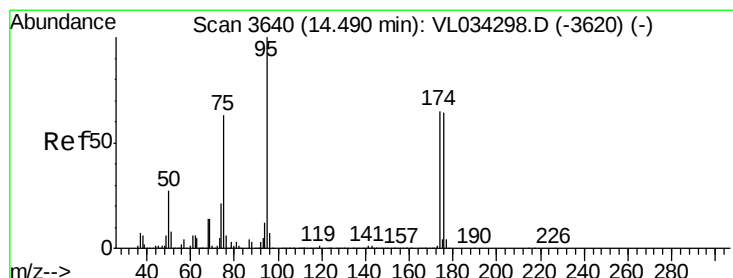
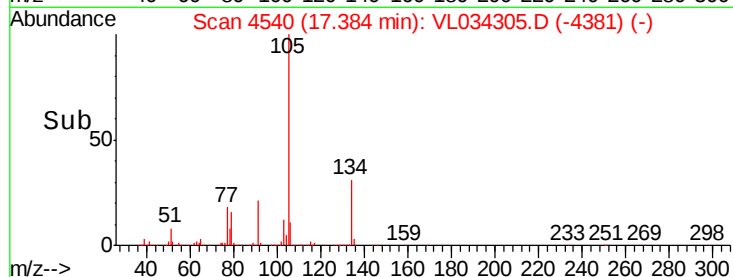
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.092 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

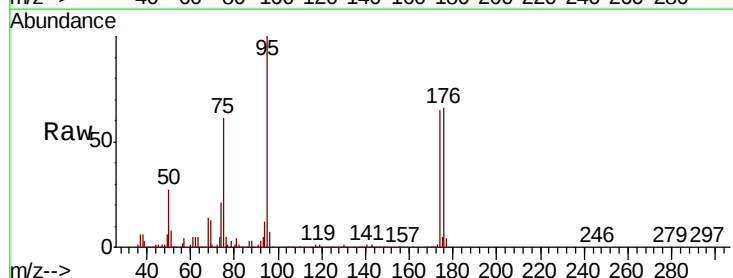
Tgt Ion: 95 Resp: 2045986

Ion Ratio Lower Upper

95 100

174 65.5 52.6 78.8

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

1200000 Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

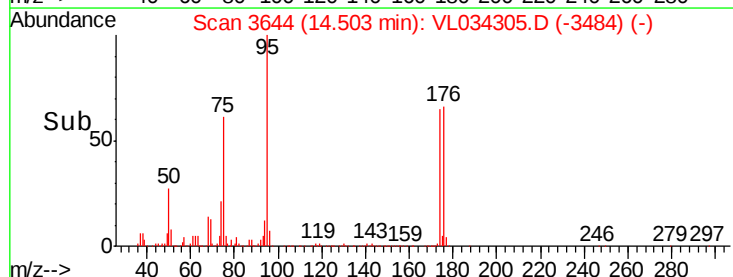
600000

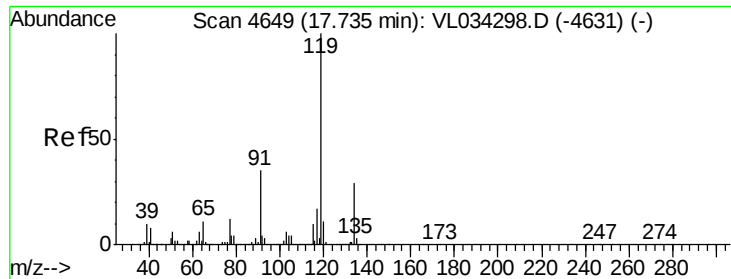
400000

200000

0

Time-->

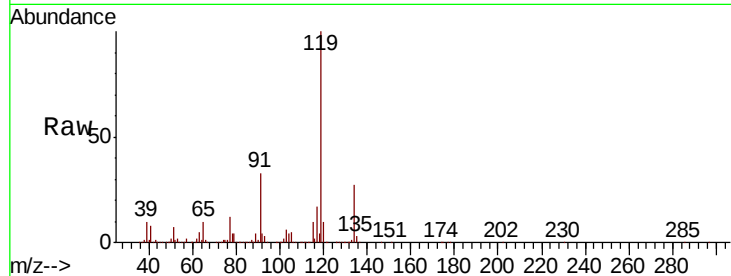




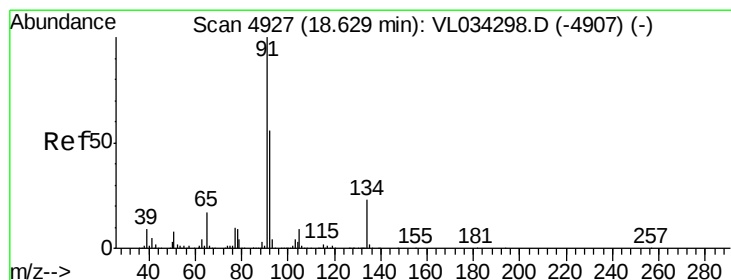
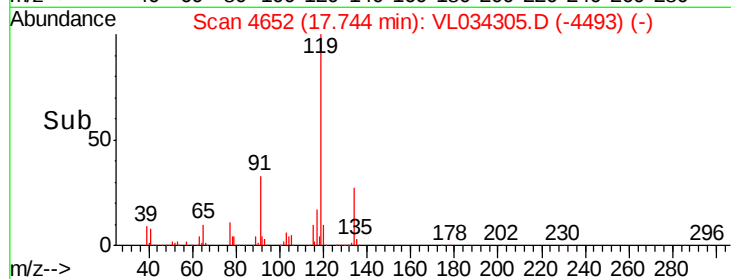
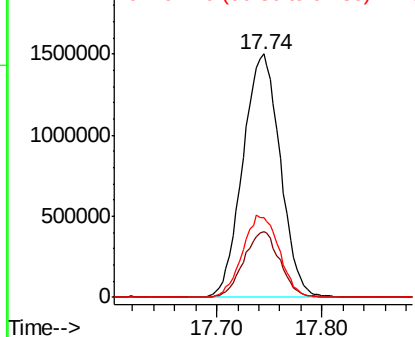
#69
 p-Isopropyltoluene
 Concen: 7.660 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:119 Resp: 3702206
 Ion Ratio Lower Upper
 119 100
 134 26.1 21.3 31.9
 91 33.2 26.6 39.8

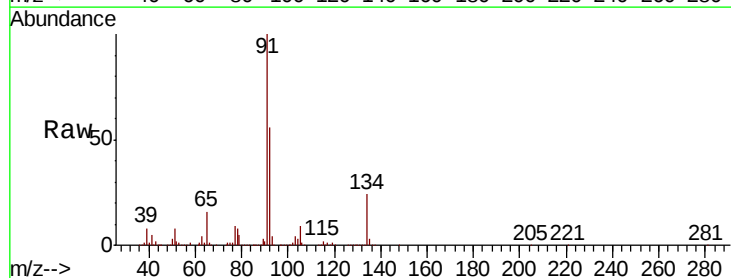


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

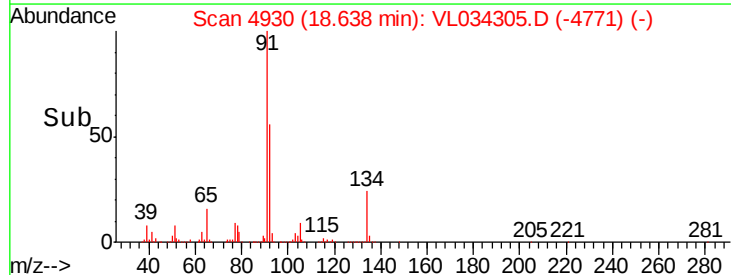
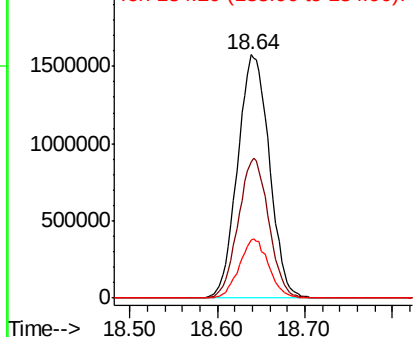


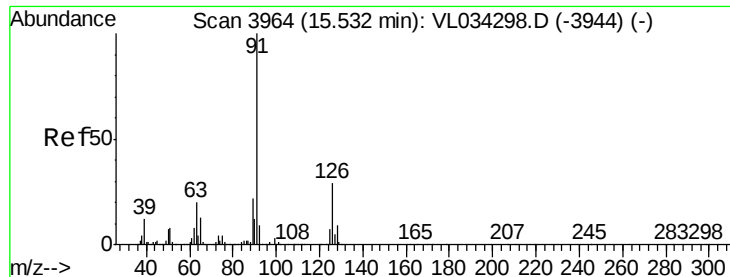
#70
 n-Butylbenzene
 Concen: 7.536 ppbv
 RT: 18.64 min Scan# 4930
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 3962668
 Ion Ratio Lower Upper
 91 100
 92 55.1 44.5 66.7
 134 22.6 18.2 27.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.970 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

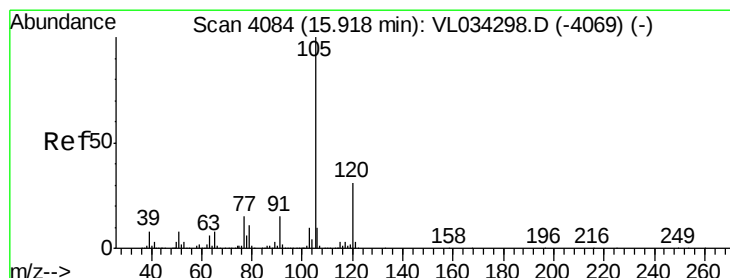
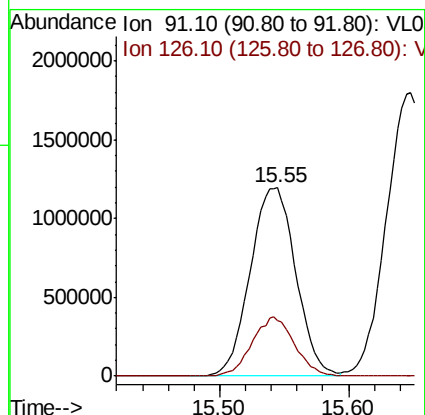
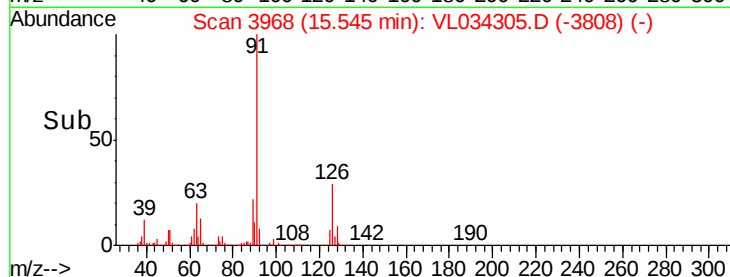
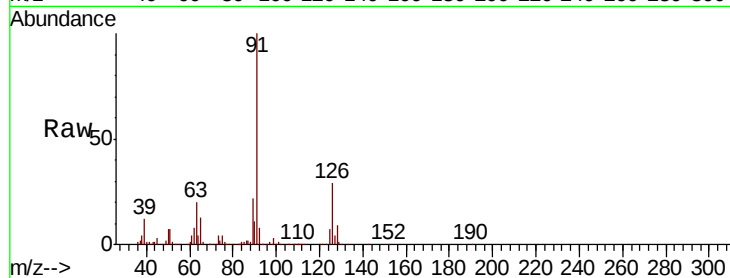
ClientSampleId :

Tot Ion: 91 Resp: 2937041

Ion Ratio Lower Upper

91 100

126 29.5 11.9 47.5



#72

4-Ethyltoluene

Concen: 7.965 ppbv

RT: 15.92 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3223461

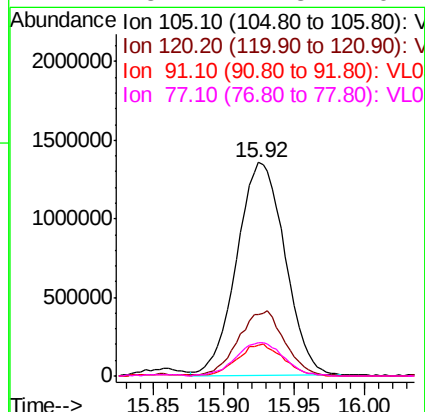
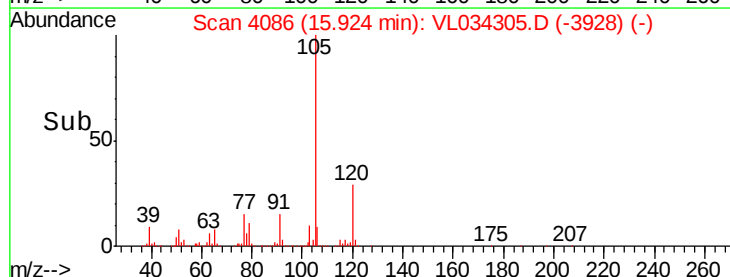
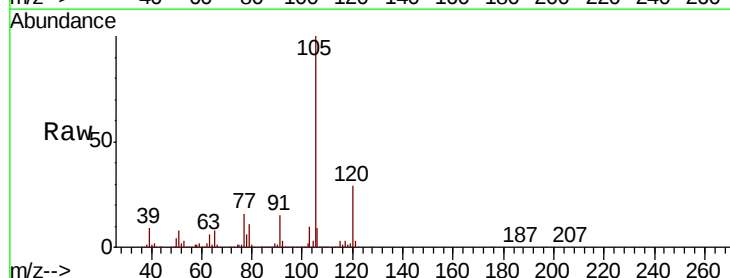
Ion Ratio Lower Upper

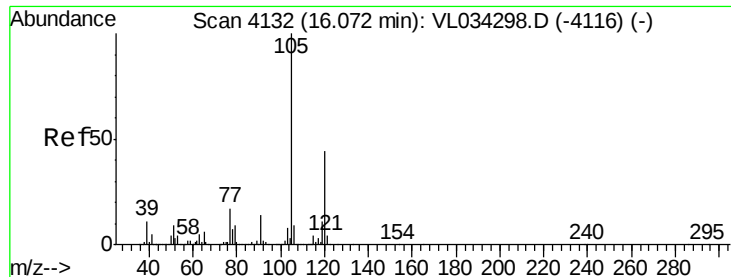
105 100

120 30.6 23.8 35.8

91 14.9 11.2 16.8

77 15.7 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 7.713 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

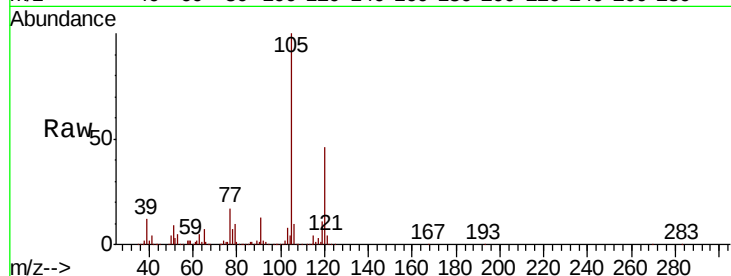
ClientSampleId :

Tot Ion:105 Resp: 3093053

Ion Ratio Lower Upper

105 100

120 46.4 35.2 52.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.09

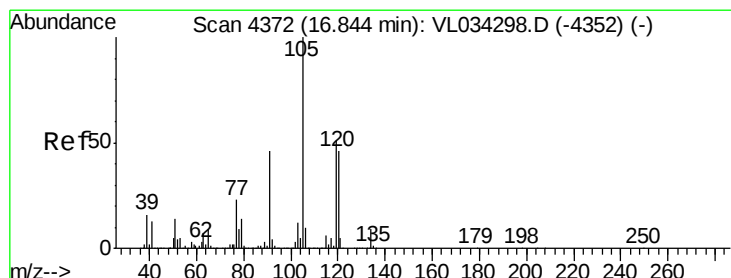
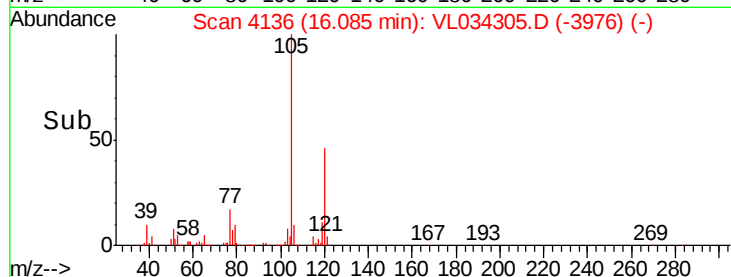
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.577 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3168541

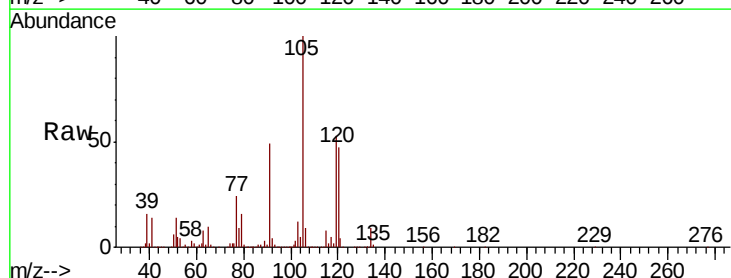
Ion Ratio Lower Upper

105 100

120 47.1 37.0 55.6

91 48.4 38.2 57.2

77 23.7 19.0 28.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

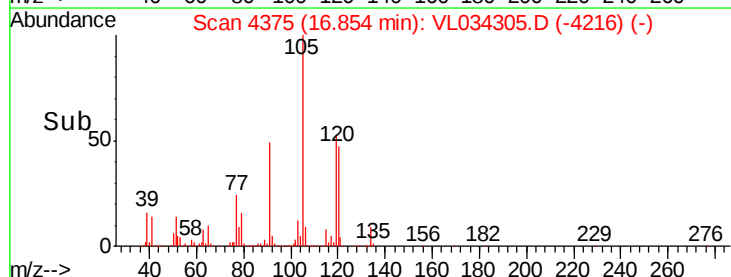
1500000

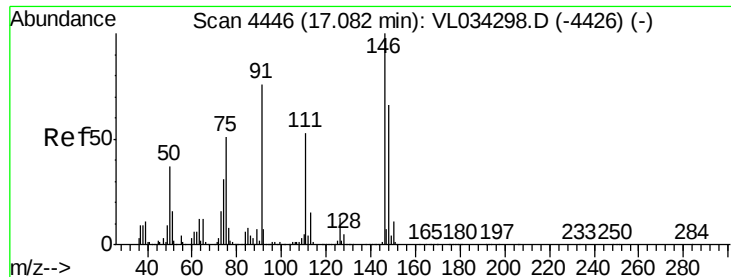
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.243 ppbv

RT: 17.09 min Scan# 4449

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampled :

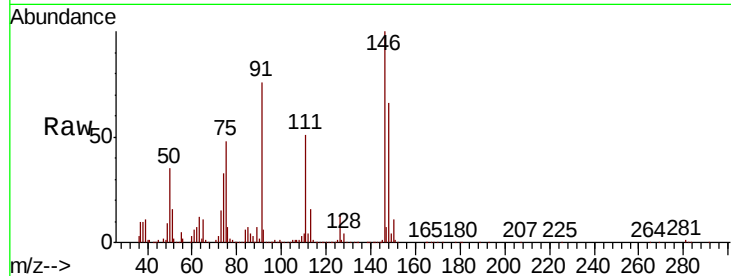
Tot Ion:146 Resp: 1818565

Ion Ratio Lower Upper

146 100

111 49.1 24.5 73.5

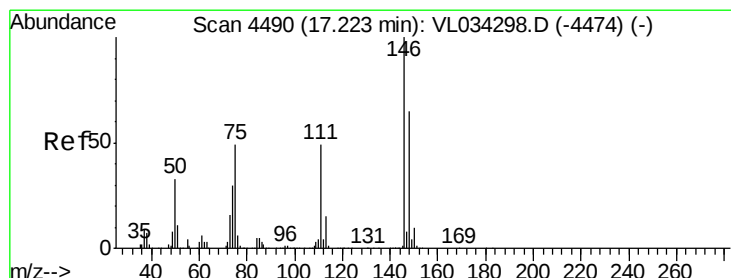
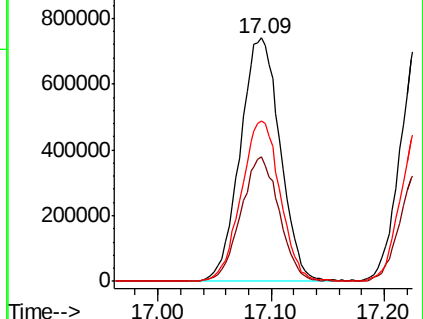
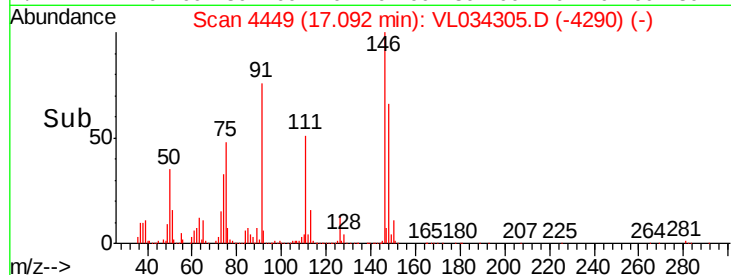
148 64.4 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.442 ppbv

RT: 17.23 min Scan# 4493

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

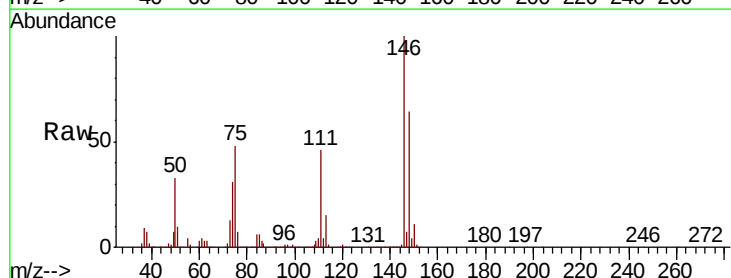
Tgt Ion:146 Resp: 1825021

Ion Ratio Lower Upper

146 100

111 46.7 23.9 71.7

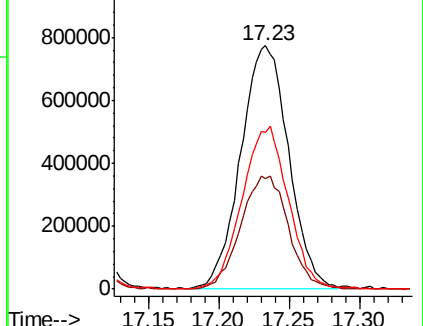
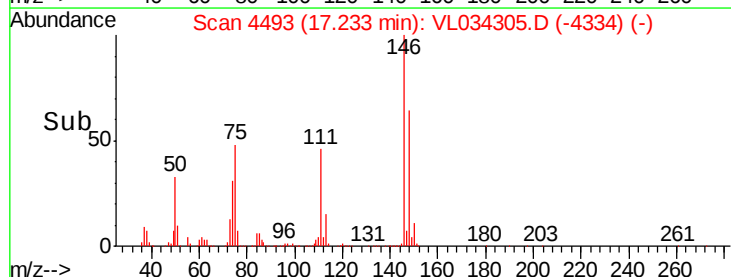
148 65.4 33.1 99.2

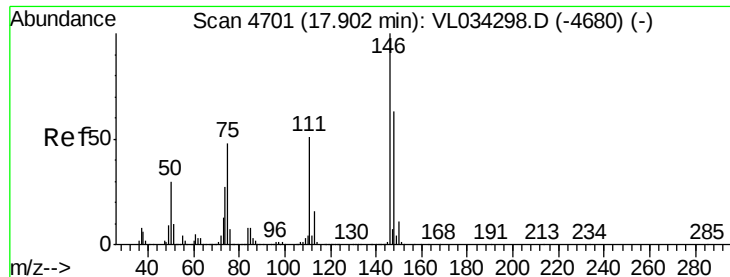


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.134 ppbv

RT: 17.91 min Scan# 4704

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

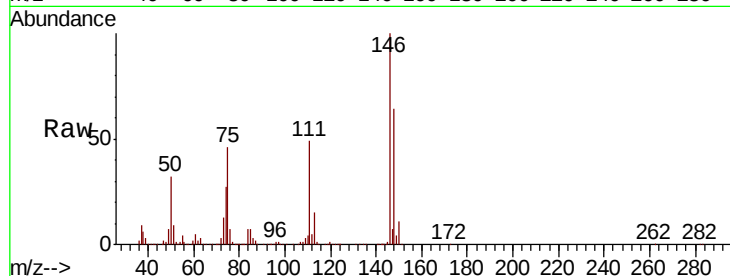
Tot Ion:146 Resp: 1756175

Ion Ratio Lower Upper

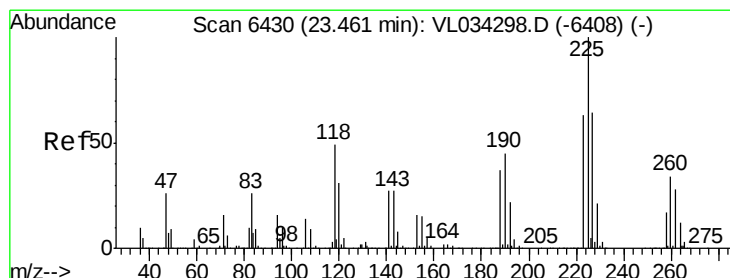
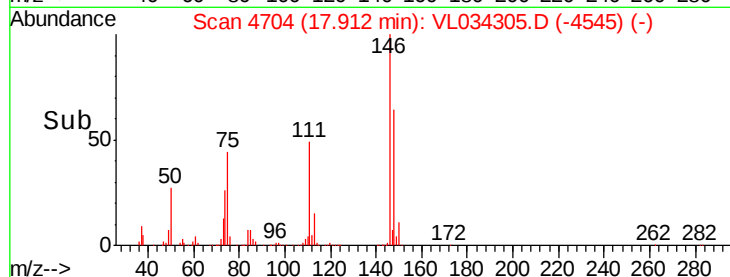
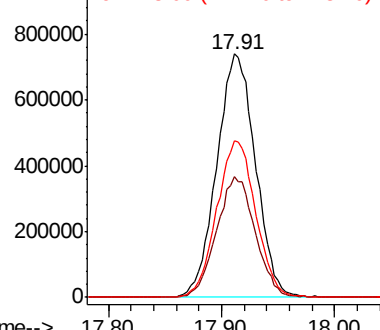
146 100

111 49.6 25.1 75.3

148 64.9 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V
1000000
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.336 ppbv

RT: 23.47 min Scan# 6433

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

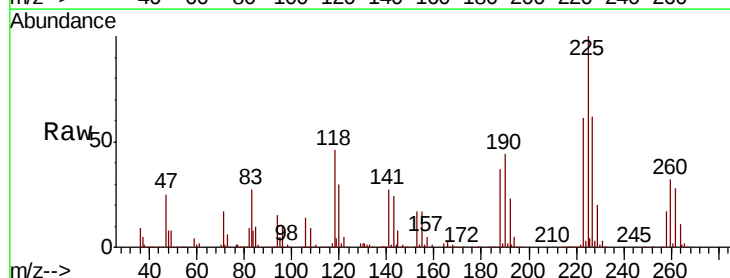
Tgt Ion:225 Resp: 1493795

Ion Ratio Lower Upper

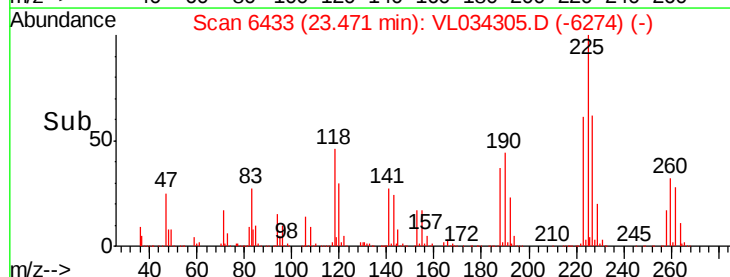
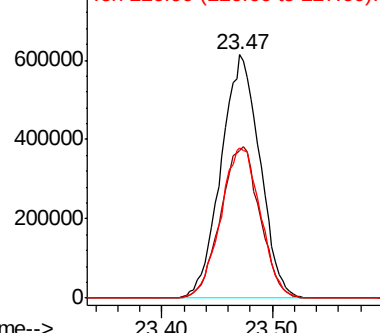
225 100

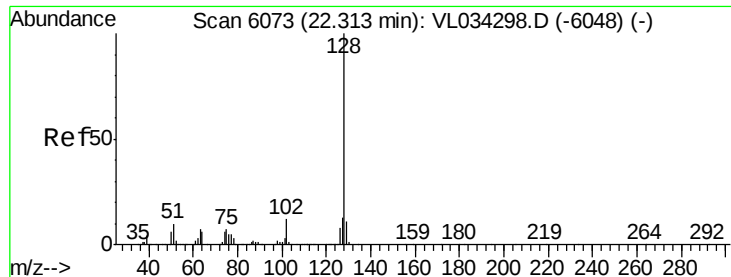
223 63.1 50.8 76.2

227 63.5 51.5 77.3



Abundance Ion 224.90 (224.60 to 225.60): V
800000
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.108 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

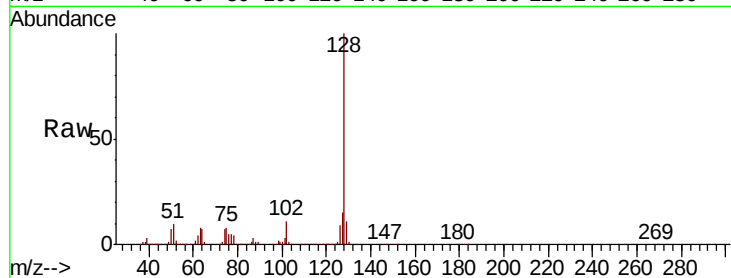
Tot Ion:128 Resp: 3087841

Ion Ratio Lower Upper

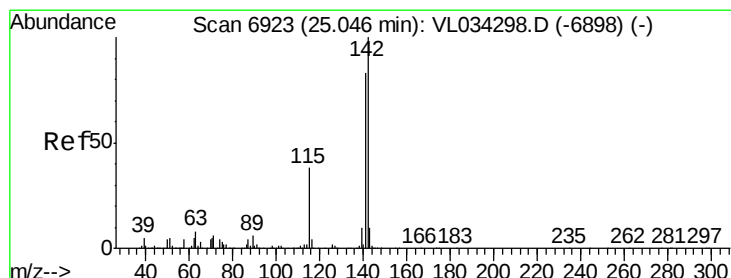
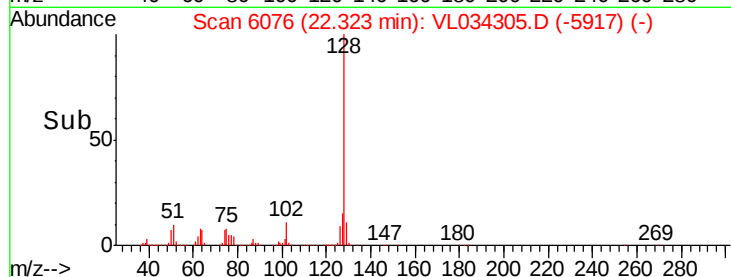
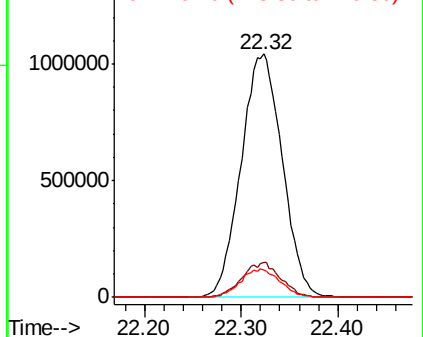
128 100

127 14.5 10.2 15.4

129 11.2 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.680 ppbv

RT: 25.05 min Scan# 6925

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

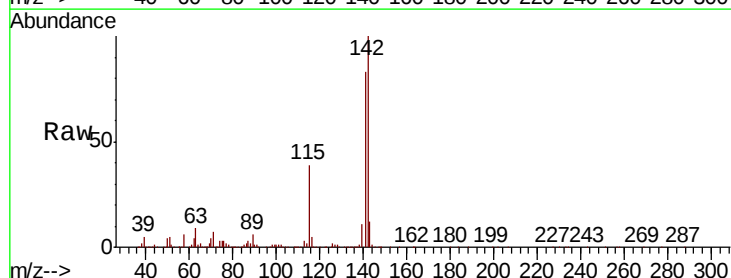
Tgt Ion:142 Resp: 943033

Ion Ratio Lower Upper

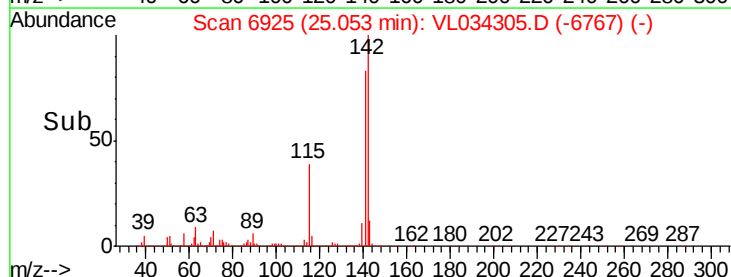
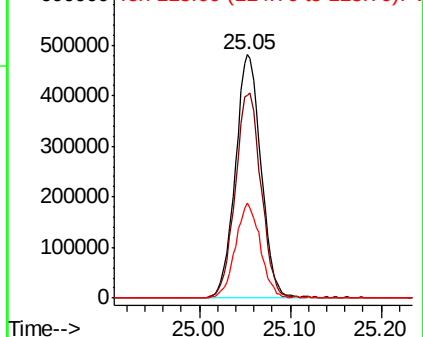
142 100

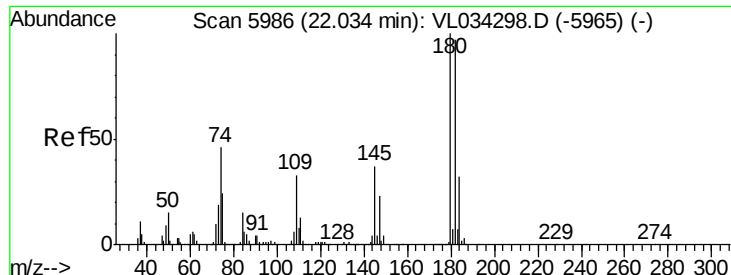
141 85.0 65.7 98.5

115 38.1 30.9 46.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 9.037 ppbv

RT: 22.05 min Scan# 5990

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

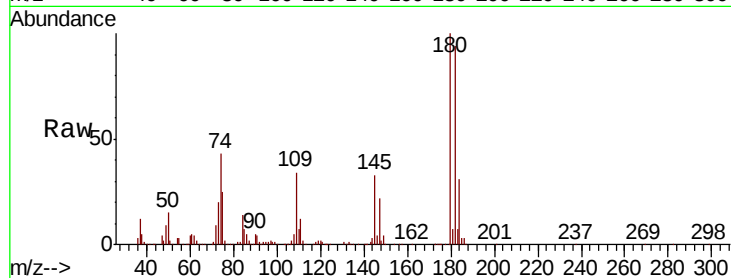
Tot Ion:180 Resp: 1803016

Ion Ratio Lower Upper

180 100

182 96.9 77.8 116.8

184 31.4 25.4 38.2



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

